THE CHEMIST AND DRUGGIST

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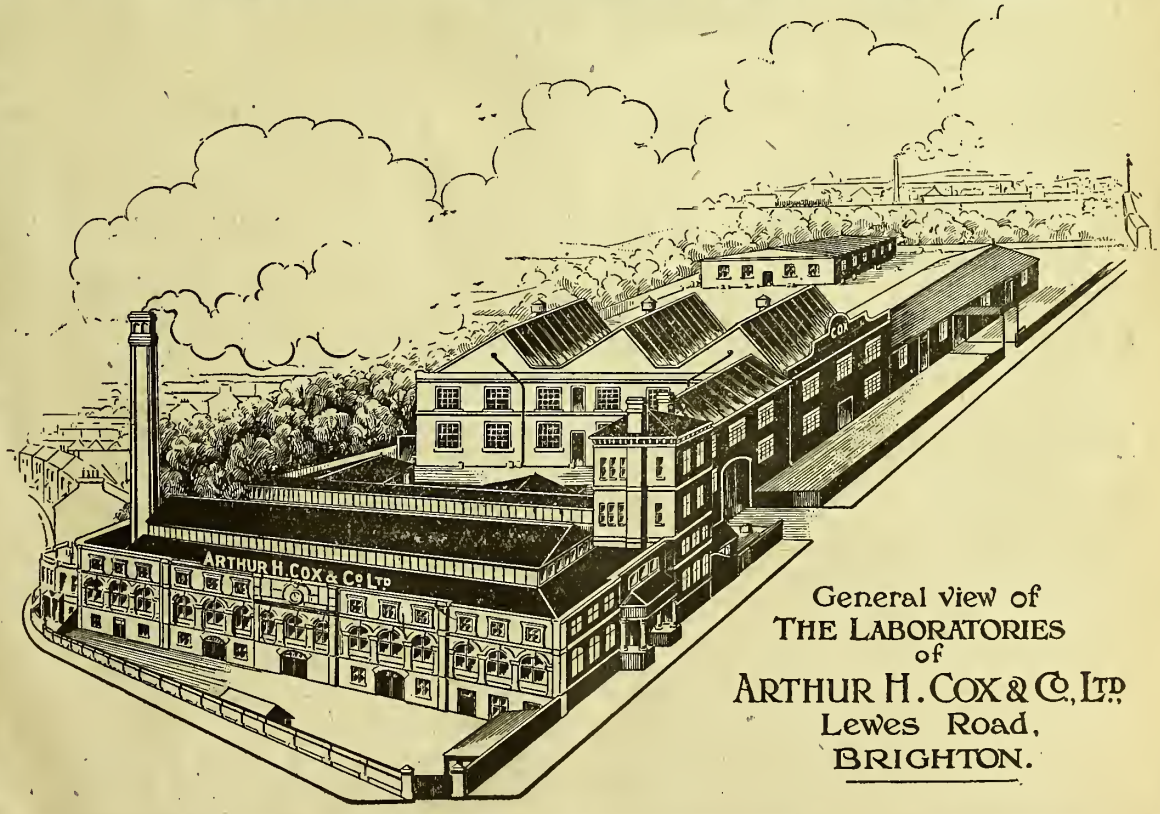

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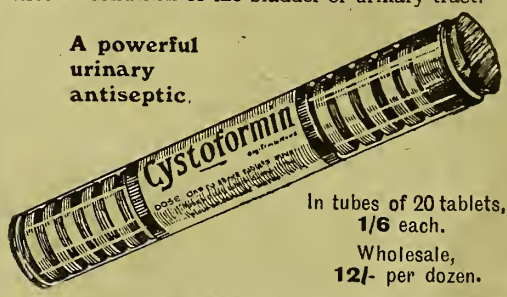

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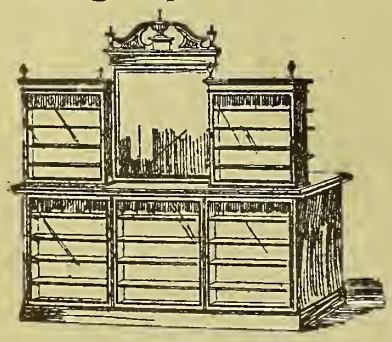

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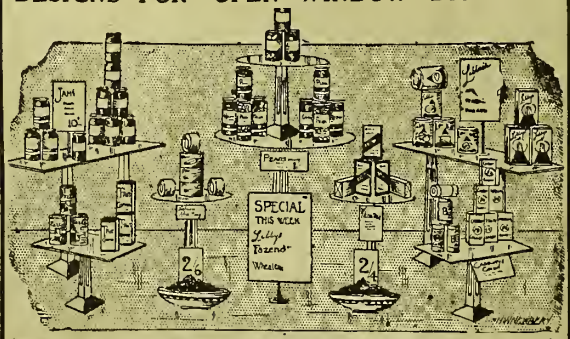

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Lithol (Ichthyol substitute)
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Methylene Blue Medicinal
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Phenacetin
Phenazone
Pyrogallic Acid
Potassium Sulpho-Guaiacolate
Quinidine and Salts
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Quinine Ethyl Carbonate
Salicylic Acid
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Salol
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ACETYL-SALICYLIC ACID

OUR OWN MANUFACTURE—"M. & J." Brand.

With an uniform pearly-white fine crystalline flake—a melting-point of 135°—137° C.—absolute freedom from uncombined acids—100% therapeutic activity, we unhesitatingly affirm that the "M. & J." Acetyl-salicylic Acid is the finest "Aspirin" manufactured in Britain. We confidently invite comparison with the original "Bayer" or any other brand.

TABLETS.

Bottles of 25 × 5 gr. Tablets - 6/- per doz.
" 100 × 5 gr. " - 20/- "
Containers of 1,000 × 5 gr. Tablets, Price on Application.

BULK.

Containers, 4 ozs. - - - - each 4/3
" 1 lb. - - - - " 16/-
Quantity or Bulk Prices on Application.

We invite your inquiries for large or small quantities for immediate or forward delivery.

MENLEY & JAMES, Ltd., *Manufacturing Chemists,*
"MENLEY HOUSE," FARRINGDON ROAD, LONDON, E.C.
Contractors to H.M. WAR OFFICE. *Works:* CAMBERWELL, LONDON, S.E.

ZEAL'S REGISTERED

Clinical Thermometer

The "REPELLO"

Requires no shaking down. *Guaranteed Accurate.*

Good Selling Lines for Chemists

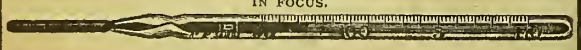
A 30-Second Pushed back in an instant.

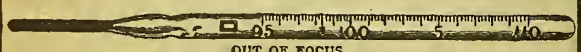
Shewing flattened bulb at end.

NEW IMPROVED LENS FINDER

The only Easy Reading Magnifying Clinical Thermometer on the Market.

IN FOCUS.





OUT OF FOCUS.

The square mark engraved on lens front locates the Mercury column immediately.

SPECIAL AWARD AND GOLD MEDAL, NEW ZEALAND, 1907.
SILVER MEDAL, INDIA, 1909. SILVER MEDAL, LONDON, 1913.

G. H. ZEAL, 82 Turnmill St., LONDON, E.C.

Wholesale Manufacturer of
CLINICAL THERMOMETERS.
CONTRACTOR TO H.M. GOVERNMENT.
Established 1888. Telephone No.: 12438 Central.

"Prana" Sparklets.

NOTICE TO THE TRADE.

MESSRS. AERATORS, LTD., regret that it has been, and will be for some time yet, impossible for them to meet demands for the "Prana" Sparklet Syphons and Bulbs, not only owing to other urgent war work, but also to the restricted supply of materials and the large demands (which must be considered preferentially) by the Expeditionary Force Canteens, Red Cross Society, &c. &c.

As regards "D" Bulbs, for the time being it is only possible to refill empty bulbs returned, and the Company request the co-operation of the Trade in the return of as many empties as possible for refilling.

AERATORS LTD.,
"Prana" Sparklet Works,
Upper Edmonton, N.

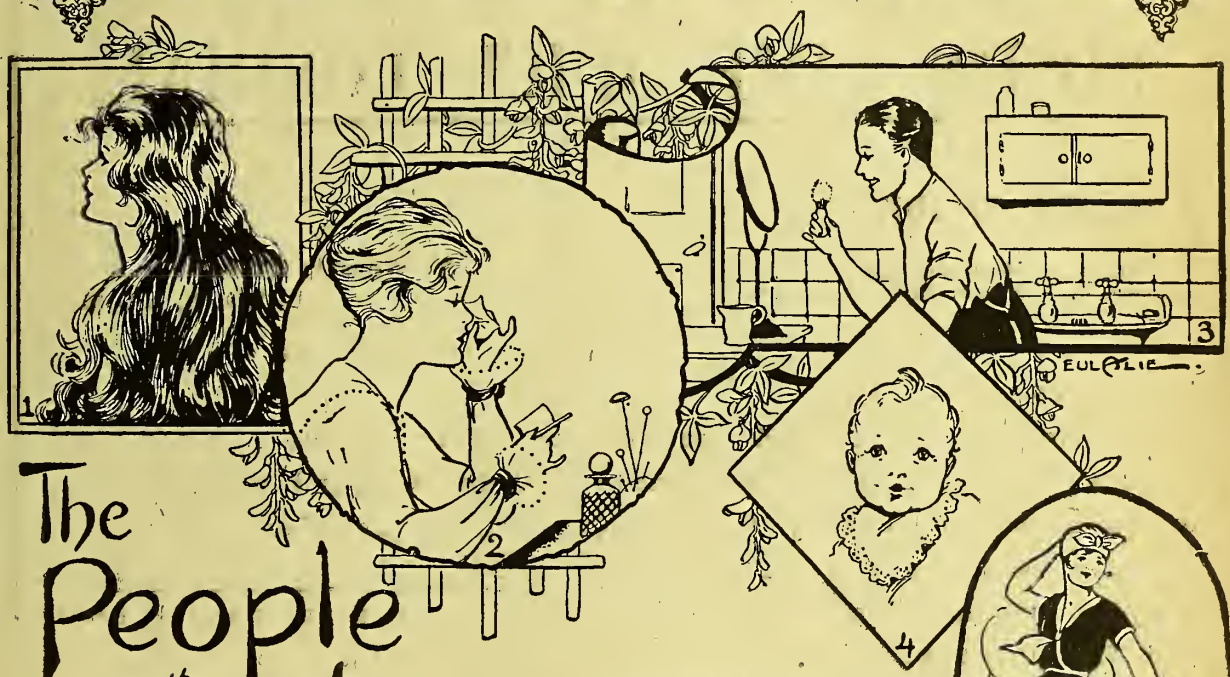
TELEPHONE CITY 7 PRIVATE BRANCH EXCHANGE
TELEGRAMS ELEVEN CENT LONDON

Maw's Page

S·MAW·SON & SONS LTD (G.P.O. BOX No 54) 7-12 ALDERSGATE ST LONDON E.C.1

NUMBER 299 JULY 7, 1917

CABLES ELEVEN LONDON
CODE A·B·C 4TH & 5TH EDITION



The People in the News:

Business news! Every hour of the day they look to you for help and advice. Your experience dictates the advantages of offering Maw Quality every time. We are here to assist you.

1 Maw's Hair Tonic, a unique preparation for the prevention of Dandruff and stimulation of the Hair Roots, per Dozen 12/6.

2 "Parex" Beauty Leaflets, a necessity for every Vanity Bag, in White, Cream, or Pink, 3/- per Dozen, with Bonus.

3 Super-Fatted Shaving Stick, fine quality, 6/6 per Dozen.

4 The "Eugenic" Feeding Bottle—the bottle of the week and the future. When placed in position the valve and teat will not pull off. The same price, 9/9 Dozen.

5 Bathing Caps. These articles are selling very rapidly, and we should strongly advise our clients to make a careful estimate as to their requirements, as our stocks once sold cannot be replaced under present conditions.

Maw Quality makes Holiday Trade Profitable

S·MAW·SON & SONS, LONDON.

HOURS OF BUSINESS: 8.30 a.m.—5.30 p.m. SATURDAYS CLOSE 1 p.m.

THE WAR

AND

ROSE'S LIME JUICE CORDIAL.

TO THE TRADE—

Telephone: LONDON WALL 722.
Telegrams: "ESOR, FINSQUARE, LONDON."

89 Worship Street,
LONDON, E.C. 2.

June 1917.

Dear Sirs,

Owing to the limited quantity of Sugar we are now allowed to use under the Sugar Restriction Order we find we are quite unable to supply the War Office, British Red Cross Society, and Y.M.C.A. with all the ROSE'S LIME JUICE CORDIAL they so urgently require for the British Expeditionary Forces and War Hospitals and at the same time continue to carry on our usual business. We have, therefore, decided to devote the whole of the present restricted output of our Speciality for the use of H.M. Forces abroad and the wounded in Hospital, so long as the urgency exists.

We hope that increased supplies of Sugar may soon be available so that we may be able to resume our ordinary business in ROSE'S LIME JUICE CORDIAL.

In the meantime we shall be glad to supply you with any quantity of our UNSWEETENED LIME JUICE on same terms as the CORDIAL. We find this is being used freely, consumers drinking it unsweetened, or sweetening to taste. Any inquiries you may favour us with will receive our prompt attention.

We are, Dear Sirs,
Yours faithfully,
L. ROSE & CO., LTD.

Important Notice

AS ANNOUNCED

in the Protected List of THE P.A.T.A.
for April, 1917, the Minimum Retail Selling Price of

Kutnow's Powder

WILL BE **2/9** PER BOTTLE
(FACE VALUE) FROM MAY 1st, 1917.

This will give a considerable increase of profit to chemists, but Messrs. KUTNOW are keeping to their wholesale price, as hitherto, in spite of the enormous rises in the prices of all the materials, bottles and everything else in connection with the manufacture of KUTNOW'S POWDER. In view of the above facts, Messrs. KUTNOW trust that both the wholesale and retail trade will co-operate with them in creating a still greater demand for KUTNOW'S POWDER, and that no substitutes for KUTNOW'S POWDER will be offered to the public in future.

Replenish your Stock

ORDER A FRESH SUPPLY

of KUTNOW'S POWDER at once, and send the adjoining Coupon for Showcards and Counter Bills, which will be forwarded Carriage Paid. A good Window Show of KUTNOW'S POWDER attracts remunerative business. It is well advertised, yields a good profit, and is always satisfactory.

SEND THIS COUPON FOR

Showcards and Bills

To S. KUTNOW & CO. Ld.
41 Farringdon Road, London, E.C. 1.

Please send me Showcards and Counter Bills, carriage paid.

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ADDRESS.....

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"Chemist and Druggist," July 7, 1917.

S. KUTNOW & CO. Ld. 41 Farringdon Rd. London, E.C. 1

There is no better Flask made than the

"ALL BRITISH" VACUUM FLASK,

of which not only the protective outer casing but the essential glass vacuum bottle are

MADE IN ENGLAND.

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"Prana" Sparklet Works,

UPPER EDMONTON, LONDON, N.

WILEY'S CHEMICAL ESSENCE.

ESTABLISHED SALE for 70 YEARS.

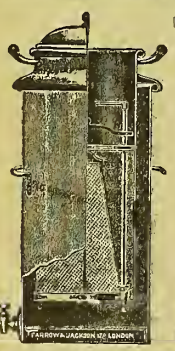
Alteration of Price.

On and after the date hereof, the retail prices will be **2/-** and **3/6.**

SOILED or SHOP-WORN STOCK EXCHANGED FREE.

Sole Proprietor—

F. E. ROOKLEDGE, EASINGWOLD.



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ESTABLISHED 1798.

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FINEST QUALITY

MILK POWDER. CASEIN.

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THE College of Preceptors holds Preliminary Examinations in March, June, September, and December. All the Examinations are held in London, Aberdeen, Birmingham, Blackburn, Bristol, Cardiff, Edinburgh, Glasgow, Leeds, Liverpool, Manchester, Newcastle-on-Tyne, and Nottingham. For the June and December Examinations there are other Centres, including Blackpool, Brighton, Carmarthen, Cheltenham, Croydon, Exeter, Margate, Plymouth, Portsmouth, Sheffield, Southampton, Southend, Southport, Sunderland, Weston-super-Mare, and York. For Regulations apply to the Secretary, College of Preceptors, Bloomsbury Square, London, W.C.

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TRADE HMS MARK

MADE IN HOLLAND

THE BEST IN THE WORLD.

Always of the purest standard and corresponding with the requirements of any Pharmacopœia.

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THE MOST PROGRESSIVE HOUSE IN THE TRADE.

CONTRACTORS TO H.M. GOVERNMENT.

MILK POWDER. 50 Tons

Machine Skimmed (Freshly Made) 1 cwt. cases.
(ready) 90/- per cwt.
Ex Wharf, London

Full Cream (Freshly Made), 1 cwt. cases
July/August shipment, 148/- per cwt.
Ex Wharf, London

SUGAR SUBSTITUTES.

There is nothing better or so nourishing as HONEY & SYRUP.

GENUINE BEE HONEY. 600 Tons.

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CUBAN (5 cwt. casks). Dark Amber 85/- per cwt. Ex Wharf, London
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" " Pale Amber 90/- per cwt. Ex London and Liverpool
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On Spot

CALIFORNIAN, 2 × 60 lb. tins.
White Sage 105/- per cwt. Ex Liverpool
White .....100/- per cwt. Ex Wharf, London
Pale Amber 95/- per cwt. Ex Wharf, Liverpool

JAMAICA (3 cwt. barrels), afloat.
Amber..... 90/- per cwt. Ex London &/or Liverpool
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Send for Price List and Trading Terms.

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Chemical Works,
BERKHAMSTED.

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For FOUNTAIN PENS and all Pens the Best.

Dichroic Ink

Makes Writing Easy

Proprietors:
Bewley & Draper, Ltd., Dublin.

"Newbery's"
FRANCIS NEWBERY & SONS LTD

No. 7 Brillantine

A LA Violette (inseparable)

A Ready and Constant Seller. Good Value to Customer and Good Margin of Profit to Retailer.

3-oz. Size ... ... 4/6 doz. net.
6-oz. „ ... ... 7/6 „

Customer's own Name & Address on orders for 6 doz. single or mixed sizes.

Charterhouse Square, LONDON, E.C.1.

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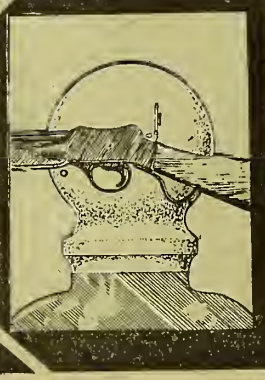
that large profits are being made out of
TOZANA
HAIR FOOD

Now being extensively advertised to the Public.

"Nourishes the Roots." A new and wonderful discovery for the rejuvenation and preservation of the hair, which, in the gentlemen's strength, is also an
EXCELLENT FIXATIVE DRESSING.

Prepared in two strengths—"Ladies'" & "Gentlemen's." Retailed at 2/-, 3/6 and 5/- per bottle; Trial size, 1/-.

For trade prices inquire of your wholesaler, or direct to the
TOZANA PERFUMERY Co. Ld. TOZANA HOUSE, KING'S CROSS, W.C.



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SEMREH
BOTTLE CAPS
Because they are
SELF - FIXING
they save Labour, Time and Money
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REVISED PRICES.

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1 oz. (Minimum 1/-)	...	...	*per doz.*	8/6
2 „ („ 1/9)	...	...	„	15/-
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1 „ „ („ 10/-)		...	„	90/-
1 quart „ („ 18/9)		...	„	172/-
Pocket Flask („ 1/3)		...	„	11/-

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1 oz. (Minimum 1/2)	...	...	*per doz.*	10/-
2 „ („ 2/3)	...	...	„	18/6
3 „ („ 3/-)	...	...	„	26/-
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EGYPTIAN HENNA SHAMPOO POWDER.

In boxes containing 7 Powders. Superior Quality and Delicately Perfumed, 10/6 per dozen boxes.

PINE, 7/6 doz.

PINE & HENNA, 8/9 doz.

PINE.

In Envelopes, 7 in box, 7/6 per dozen boxes.

PINE & HENNA.

In Envelopes, 7 in box, 8/9 per dozen boxes.

Customer's name free on 3 dozen boxes or bottles.

MANUFACTURED ONLY BY—

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"SIANARA" (Regd.) Toilet Soap

With the Enchanting Perfume of OLD JAPAN.

AN ENTIRELY NEW LINE IN

ROUND BATH

To sell at 3d., 4d., 5d. and 6d. per tablet.

Let us quote you for your Proprietary Soaps.

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MEDICATED "CUTANEOUS" SOAP.

A Soothing, Emollient, Super-Creamed Soap, Deliciously Perfumed with Olde English Lavender.

LADY BYRON writes: *"I can recommend Cook's fragrant "Cutaneous" Soap as the most delicious skin balm I have ever used."*

Wholesale **6d.** per tablet. Retail **9d.** per tablet.

EDWARD COOK & CO., Ltd.

Soapmakers by Appointment to H.M. the King,

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ELEY BROTHERS, LIMITED

specialise in the manufacture of the following articles at the lowest prices:

Shaving Stick Cases

Oval and Round Tops

for Powder Tins, Cruets, Dredgers, etc.

Metal Boxes

for Dentifrices, Soap Tablets, etc.

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for Walking Sticks, Whips, Bamboo Fittings, etc.

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in any of the following metals: Brass, Copper or White-metal (nickel or silver - plated), Aluminium and Jewellers' Metal (Tombac).

During the continuance of the War we cannot undertake orders to make any of the above goods requiring one or more of the metals for their manufacture of which the use for commercial purposes has been prohibited by H.M. Government; but we invite inquiries, as we still have some articles in stock which were made before the prohibition was issued.

ELEY BROTHERS, Ltd.

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8d.

Make your old Hat a new one.

In bottl s, 8d. each, in separate neat cartons, with suitable brush.

These Dyes are a distinct invention, dyeing the straw without an objectionable varnished appearance, and producing the effect of new goods.

NO GLOSS. NO POLISH.

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"Glossy" Series supplied if desired.

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One solution, nine shades.

A first-class article with an excellent demand, created entirely on its own merits, and carrying a first-class profit.

Size.	Minimum retail.	Minimum wholesale.	
1/-	1/-	7/6	per doz. less 5 % discount
1/6	1/6	9/-	
2/6	2/3	15/-	
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SPECIAL BONUS.

Buyers of 3 doz. bottles receive 3 bottles gratis (may be assorted and any size).

Do. 6 doz. do. 8 bottles gratis.

Do. 12 doz. do. 18 bottles gratis.

Equivalent in the case of the size in most general demand, viz. 1/6 size to 4/6, 12/- and 27/- respectively.

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New Medicated Toilet Soap
"CUTOLĀV"
Retail Price 7½d per Tablet
which shows an attractive profit.

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Recommended for Nursery or Toilet use.

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NOTE. Quotations given for Medicated Toilet Soaps under Chemists own die and Printing. Attractive and appropriate wrappers and labels available.

A PROFITABLE LINE.

Wholesale Price :
3/9 per Doz. Tablets
LESS DISCOUNT.

Retail Price (Minimum) :
7/6 per Doz. Tablets
NET.

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PETROLEUM JELLIES

White, Yellow, Amber and Red.

For Pharmaceutical and General Purposes.

AMERICAN SPIRITS OF TURPENTINE,
OLIVE, CASTOR, COLZA OILS,
ROSIN, and LUX BLOOMLESS MINERAL OILS.

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METHYLATED SPIRIT

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Write for Prices. ESTABLISHED 1794.

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THE BEST TONIC FOR FORTIFYING AND BUILDING UP THE NERVOUS SYSTEM.
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CAPSULES
MORRHUOL DE CHAPOTEAUT is extracted from cod-liver oil, and contains all its efficacious properties without the disagreeable taste.
It cures Coughs, Bronchitis and Catarrh, restores the appetite, and gives force to feeble persons.
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CHANDRON'S DROPS
(Gouttes des Colonies)
A harmless antiseptic preventative against CHOLERA FERMENTATION - INDIGESTION & other intestinal disturbances.
SOLD BY ALL CHEMISTS

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War Prices Protected.

The cutting of special War-increases is an insidious danger from which

RETAILERS OF

JOHN BOND'S "CRYSTAL PALACE" MARKING INK

ARE PROTECTED.

The increase is but small, ½d. a Bottle retail, either size, heat or non-heat. Every other domestic commodity has risen more.

The 1/- size protected at 8d. is now protected at 8½d.

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THE PROTECTED RETAIL PROFIT IS **33⅓%**

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PURE ORANGE WINE

(VINUM AURANTII B.P.) Prepared in strict accordance with the Formula of the British Pharmacopœia. (Wholesale only)

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DECOLTENE The liquid hair remover

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The intelligent depilatory. Simple, safe and effective. Pleasant and harmless. Invaluable during the décolleté vogue. Daintily packed.

An attractive line that enjoys good sales. A greaseless Cream, that takes the odour out of perspiration. Daintily packed in opal jars.

Ask your wholesaler. Both articles largely advertised.

SATISFACTION GUARANTEED OR MONEY BACK.

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DECOLTENE. Advertised and min. Retail price 3/9
Trade 30/- per doz.

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Trade 20/- per doz.

5% cash with order. Carriage paid on £1 lots. Particulars on request.

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Decorated Tin Boxes & Canisters

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HONEY HONEY

"JOYBELLS" HONEY.

The choicest and most delicious honey procurable. Screw-top Glass Jars, 15/- and 9/- per dozen. "Joybells" Honey in Red Earthenware Pots, 14/- per dozen; in bulk, 1/2 per lb. Tins charged and returnable.

The Institute of Hygiene state: "We are satisfied that 'Joybells' Honey is a genuine product, possesses the distinctive flavour imparted to bee honey, and is a most pleasant & wholesome article for general table use."

"SUMMERLAND" HONEY.

Equals that usually sold as Finest Clover Honey. Screw-top Glass Jars, 14/6 and 8/3 per dozen. In bulk, 1/1½ per lb.

"SWEET FLOWER BELL" HONEY.

Fine quality. Tie-over Red Terra-Cotta Pots, 13/- per dozen. In bulk, 1/1 per lb.

BEESWAX. Choice quality 2/6 per lb.; 1-oz. Moulds 2/- per dozen. Samples 3d.

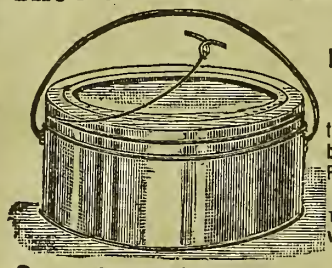
Standard Health Food Co. (*With which is incorporated The Berkshire Honey Co.*)

Honey Specialists - - READING, BERKS.

The Northern Tin Canister Works,

6 Mersey Street,

LIVERPOOL.



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TIGHT SEAMING & VARNISH BOTTLES A SPECIALITY.

Patent Air Tight Slip-lid Tin for Export.

Prompt Deliveries Assured.

Established in the Reign of King William the Fourth

Midgleys Manchester

TELEPHONE: 7665 & 7666 CITY. REGD. OFFICE: 5 MAYES STREET. TELEGRAMS: "MEDICATED, MANCHESTER."

Our New Premises

We have great pleasure in advising our friends in the Trade that we have now completed the transfer of our offices and warehouse to the new Mayes Street Building, and we take the opportunity of extending to our clients our heartfelt thanks for their courteous and helpful consideration during a period always fraught with difficulty and vexatious delays, and doubly so under present-day war conditions.

. . .

The need of this extension was urgent and pressing, and we are now happily able to address ourselves to the task of making up arrears in the filling of orders, some of which have been unavoidably held over. We hope that by a future greater expedition in dispatch, together with an accentuated activity in the carrying-out of ideas calculated to extend the sale of Midgley's Medicated and Toilet Soaps through our Pharmacist Agents, to make an *amende honorable* for any inconvenience suffered through recent delays.

Our New Soaps

In the face of increasing difficulties we have been able to secure an uninterrupted maintenance of that standard of purity in soaps which has come to be recognised as Midgley's. The secret of success in Toilet—as well as Medicated—Soaps lies in the base. This fact is too seldom recognised, and should be borne well in mind.

. . .

Recent additions to the Medicated series have been formulated in collaboration with leading dermatologists. As in the past, we remain in close touch with the leading authorities on skin trouble, and we continue to seek and obtain the most advanced expert opinion in regard to new formulæ.

. . .

The new numbers in the Toilet series include Peau d'Espagne, Muguet, Bois de Santal and Old English Lavender. Our perfume expert, a French chemist, whose work in advancing this important industry in France has gained the highest recognition and reward, pronounces them to be four of his best works. They are presented in beautiful wrappers and boxes of British design and execution.

Our Clients

We are gratified by the steady filling up of the chain of Pharmacist Agents throughout the British Isles. Our Soaps, we consider, receive further endorsement by virtue of the front-rank Pharmacists constituting our growing list of agents.

. . .

That the reputation of our Soaps is extending abroad is borne testimony to by the following extract from a letter just received from Australia:

"We note you are forwarding us six "dozen each of four of your Toilet Soaps, "and we will make it our business to "place these on the market. We have no "hesitation at all in stating that people "who use your soaps are very much im-"pressed with their merits, and we hope "in time to be able to create a demand "which will be of some account."

Our Methods

As Pharmacists ourselves, we realise what is required for Pharmacists, and we aim at making our agency worth having. We continue behind the Pharmacist, and apart from the scheme of personal letters to clients' own medical men and leading lay customers, which we continue to support with a generous distribution of sample tablets, backed up again by tasteful showcards and chatty leaflets, we have been, and are always, ready to fall in with any special scheme recommended by individual agents for local application. Thus we aim at making each stage of the sale personal.

. . .

Pharmacists who are asked for Midgley's Soaps should in their own interests write NOW to us direct, asking for samples and special terms of agency.

The New Mayes Street Premises.

TITTERTON'S CELEBRATED HAIR BRUSHES

GOOD PROFITS are made by selling TITTERTON'S CELEBRATED BRUSHES

(Hair, Tooth, Nail & Shaving Brushes).

They have a world-wide reputation for excellence of quality, and perfection of workmanship. Should be stocked by all Chemists desiring to give the public the best value for money.

Illustrated Catalogue on application.

TITTERTON & HOWARD,

Brush Manufacturers,

8 & 10 Great Titchfield St., London, W.

You Reap the Profits!

The above is only one of the many forceful advertisements now appearing in the most influential National publications and Fashion periodicals telling housewives that Iron-mould is no longer immovable. MOOVOL contains no injurious acids and is not harmful to the most delicate fabric.

ARE YOU PARTICIPATING IN THE PROFITS?

Send a P.C. for trial stock and display material to

WM. EDGE & SONS, LTD.,

BOLTON, LANCS.

(THE DRUMMER DYE PEOPLE.)

"SOLAZZI" LIQUORICE JUICE

THE CHEMISTS' BRAND.

'The Lancet' says: 'Of Standard Purity'

Recommended also by *The British Medical Journal, Health, The Chemist and Druggist, Food and Sanitation.*

Ask for SHOWCARDS and HANDBILLS. To be obtained of all Wholesale Houses.

THE BOMBAY AGENTS' COMPANY,

170 HORNBY ROAD, BOMBAY,

with established Offices in Calcutta and Colombo, are open to accept further sole agencies for India and Ceylon. This Company is owned by a well-known European, who has exceedingly good connections all over India. Manufacturers of Patent and Proprietary Articles, Chemicals, Drugs and Galenicals, cannot obtain better representation in India than that now offered. CORRESPONDENCE INVITED.

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Order through your Wholesale Drug House.

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Kills Lice, Fleas, Bugs, Mosquitos, Harvest Bugs, Midges, Jiggers, Tombu-Flies, Gad-flies, etc.

Soluble in Water. Acts like balm on the skin.

PREVENTS TYPHUS AND MALARIA.

See PROFESSOR LEFROY'S REPORTS.

Manufactured by

S. BOWLEY & SON,

Wellington Works, Battersea Bridge, LONDON, S.W. 11. (1)

Liquid Paraffin B.P.

Petroleum Jelly B.P.

White Oils,
Coloured Oils for Brilliantines, &c.

STERNS LTD.,
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TIDMAN'S SEA SALT

The Proprietors have been compelled to revise their prices, which are now as follows. The former prices will be reverted to as soon as market, transit, and labour conditions allow.

NEW PRICE LIST.

	Advertised Price Per doz.	Minimum Retail. Per doz.	Wholesale Per gross.
"PENNY PACKETS" (12 in box)	**1/6**	**1/3**	**10/6**
Twopenny Packets (12 in box) ...	**2/-**	**2/-**	**19/-**
	Each.	Each.	Per doz.
Boxes, about 1½ lbs.	**4d.**	**4d.**	**3/4**
" " 3½ "	**8d.**	**8d.**	**6/8**
" " 7 "	**1/2**	**1/2**	**11/6**
" " 14 "	**2/-**	**2/-**	**20/-**

Four 7 lb. Boxes CARRIAGE PAID for 4/-.
Six 7 lb. Boxes CARRIAGE PAID at 11/6 per doz.
Assorted Orders to value of 10/-, CARRIAGE PAID, any of above sizes.

		Each.	Each.	Each.
No stock to hold	**Bags** of 28 lbs.	**3/6**	**3/6**	**3/-**
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2½ % Discount for Cash on all orders of 20/- and upwards.

Packing Cases extra and returnable. Half value allowed if not returned.

TIDMAN & SON, Ltd., London, E. (Members of P.A.T.A.)

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COLOURS

(ALL SHADES)

for

CONFECTIONERY
(Harmless)
MINERAL WATERS
(Acid-proof)
GELATINE
LEATHER
SOAP
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BOOT POLISH
WRITING INK
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&c. &c.

Soluble in

WATER SPIRIT
OIL TURPS
WAX BENZOLINE
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PETROLEUM CREOSOTE

and

IN FACT—ANYTHING.

BLACK FOR INK.

MARKING INK.

ETERNITE

A combined Stain and Preservative for Wood.

HOUSEHOLD DYES.

RHEUMSOL BATH SALTS
in **1/-** Tins.

WILLIAMS BROS. & CO.

Hounslow, Middlesex.

SAVE 3/- PER GALLON

BY BUYING

GUARANTEED GENUINE

NEWFOUNDLAND NON-FREEZING MEDICINAL COD LIVER OIL

OF NEW SEASON'S MAKE.

Highest possible quality in smell, taste and colour, comparing most favourably with the finest Norwegian. Manufactured from the finest fresh Cod Liver on same day as fish caught.

WHOLESALE ONLY.

Kindly write for sample to

JOB BROS., Manufacturers, Tower Building, LIVERPOOL.

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And of ST. JOHN'S, N.F. Established 1780.

LOFTHOUSE & SALTMER, Ltd.

Wholesale & Export Drug Merchants,
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P.A.T.A.	Protected Retail Price.	Dozen Net.
*LOSALL'S SALT (well advertised), tins	7½d.	5/6
* - - - - - -	1/2	10/-
* - - - - bottles in cartons	1/6	12/-

Losall's Salt sells so well, surely it must pay Pharmacists to stock such a large profit-bearing protected line.

LOSALL'S COMPOUND SULPHUR SOAP.

A valuable emollient medicated skin soap, especially suitable for use in Eczema 13/6 per dozen boxes net.

Chemists requiring effective advertising matter for Losall's Salt, &c., will, on application direct to Lofthouse & Saltmer, receive a liberal supply of Dummies, Showcards, Window Slips, Price Tickets, &c., Carriage Paid, whether or no they have an account open with the Firm.

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ORGANO-THERAPEUTIC PRODUCTS
OVARIAN, THYMUS & THYROID SUBSTANCES, &c.

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Sample tube free.

SMALL size, 3/6 per dozen.
LARGE size, 5/- per dozen.

CUXSON, GERRARD & CO., Ltd., Oldbury & Birmingham.

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LIQUID PARAFFIN

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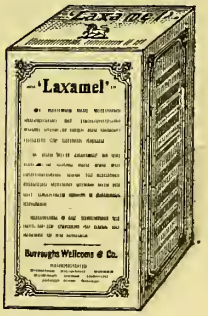

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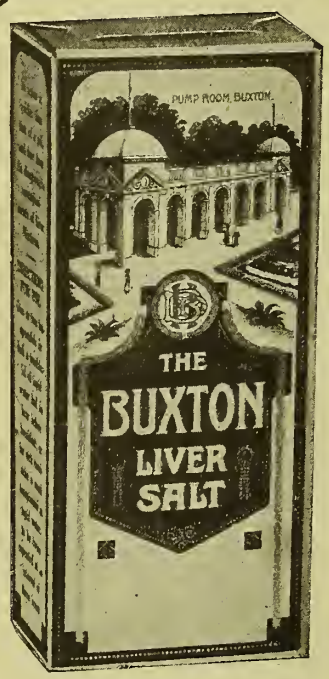

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PRESENTING ALL THE ESSENTIALS OF THE FAMOUS SPRING.

CONTAINS NO SUGAR.

8 fl. oz.
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P.A.T.A. MIN. RETAIL PRICE, 1/9.

A Buxton Physician writes :—
" I consider your Buxton Liver Salt the best of all the Saline Preparations in use. It is safe, efficient and agreeable. In quality and chemical constitution it is far superior to any other."

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A Weekly Journal of Pharmacy and of the Chemical and Drug Trades.
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The CHEMIST AND DRUGGIST is in circulation and reputation the leading journal addressing the Chemical and Drug trades in the British Empire and other countries in the Old and New Worlds. It is the official Journal of many Chemists' Societies in Australia, Ireland, New Zealand, South Africa, and the West Indies.

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Twelve Shillings and Sixpence a year in advance, post free to any part of the world, including a copy of *The Chemist and Druggist Diary* next published. Subscriptions may begin any month. Single Copy, 6*d.*; Summer or Winter Number, 1*s.*; *Diary* 3*s.* 6*d.* Postal orders and cheques to be crossed "Martin's Bank (Limited)."

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Coming Events.

This section of the "C. & D." is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

Sunday, July 8.

Pharmacists' Volunteer Corps, Imperial College Union, Prince Consort Road, South Kensington, London, W., at 10 A.M. Parade. July 10 (8.45 P.M.), Officers and N.C.O.s class; July 11 and 12 (3 P.M.), drills.

Wednesday, July 11.

British Pharmaceutical Conference, 17 Bloomsbury Square, London, W.C., at 11.30 A.M. Business meeting and address by the President, Mr. C. A. Hill, B.Sc., F.I.C.

Thursday, July 12.

Proprietary Articles Trade Association, Holborn Restaurant, London, W.C., at 3.15 P.M. Annual meeting. Followed at 4.15 P.M. by the annual meeting of the Chemists' Defence Association.

THE "Kew Bulletin" is to be resumed, but in a modified form.

LINSEED is being experimentally grown with success in South Lincolnshire.

THE "SUNDAY PICTORIAL" states that after Lord Rhondda has disposed of the food question he will turn attention to drug profiteers.

A SECTION of the British Electrical and Allied Manufacturers' Association has been formed to deal with the question of fostering the *x*-ray apparatus industry in this country.

European War News.

War Aims of the Allies.

The Prime Minister (Mr. Lloyd George), in the course of a speech at Glasgow on June 29, said:

In my judgment this war will come to an end when the Allied Powers have reached the aims which they set out to attain when they accepted the challenge thrown down by Germany to civilisation. (Cheers.) These aims were set out recently by President Wilson with his unrivalled gift of succinct and trenchant speech. As soon as these objectives are reached and guaranteed this war ought to come to an end, but if it comes to an end a single hour before it will be the greatest disaster that has ever befallen mankind.

"Let the nation keep steady," he also said; "do not let the nation be 'rattled.' If we grip hard we shall win; but do not let us fray the rope or it may not bear the strain." The speech concluded, "My appeal is this: that we should continue to fight for the great goal of international right and international justice, so that never again can brute force sit on the throne of justice nor barbaric strength wield the sceptre of right."

Food Controller's New Powers.

An Order in Council under the Defence of the Realm Act, published in the "London Gazette," June 29, gives Lord Rhondda drastic new powers of control in regard to food-prices with a view to dealing with speculation and profiteering wherever it is established that they exist. It is officially announced that Lord Rhondda is now empowered to requisition the whole or part of the output of any factory, and to pay a price based on the cost of production, with the addition of a reasonable pre-war rate of profit, without regard to the price ruling in the open market, and for this purpose to examine books and to ascertain such particulars as to output, cost, and rate of profit as may be required for fixing a reasonable price. Similar powers have been taken to deal with goods requisitioned from growers or other producers. Where goods are requisitioned from a *bonâ-fide* merchant or dealer, the price will be determined by the price paid by him for the goods, provided that such price is not unreasonable, and by the rate of profit which he would normally earn under pre-war conditions, provided that such profit was not excessive. Where, however, any middleman or speculator has acquired foodstuffs or other commodities otherwise than in the usual course of his business, no profit at all or a profit at less than pre-war rates may be allowed. These powers have for some time past been exercised by the Admiralty, Army Council, and Ministry of Munitions, and have enabled those Departments to purchase their supplies at reasonable prices and without regard to the market fluctuations due to abnormal war conditions.

Personalia.

MR. ROSCOE FAULKNER, A.P.S., from the Artists' Rifles, has been posted second-lieutenant in the East Lancashire Regiment.

PRIVATE HAMILTON B. YOUNG, R.S.F., has been wounded in both legs, and is in hospital. Previous to enlistment he was employed with Mr. Cormack, chemist, Corstorphine.

PRIVATE H. ALLEN, Royal Fusiliers, who has received the Military Medal for distinguished conduct in the field, was formerly an assistant with Mr. F. J. Goodwin, chemist and druggist, Normanton Road, Derby.

PRIVATE C. B. HART, of the West Yorkshire Regiment, who was wounded on September 18, 1916, was again wounded in action on May 31, and is now at the Military Hospital, Carrington, Nottingham, with a shattered knee. Prior to joining the Colours, Private Hart was an assistant with Taylor's Drug Co., Ltd., Leeds.

WE had a call this week from Staff-Sergeant E. R. Hine, of the Medical Unit, South Africa Native Labour Corps. Staff-Sergeant Hine has been in France for some time, and is in this country for a few days' leave. In normal times he carries on a chemist's business at Fricksburg, Orange Free State, but is now doing useful work for his country in helping to overcome the enemies of civilisation in Europe.

LIEUTENANT G. C. BENNETT, quartermaster and dispenser on an Australian hospital ship, is at present in this country replenishing medical supplies. He is a Melbourne pharmacist in peace-time, and enlisted in May 1915 in an infantry regiment. Afterwards he was transferred to the Australian Army Medical Corps, and later on received his commission as lieutenant—an exceptional thing for a chemist. His time is spent on the hospital ship which goes to and from Australia. He is the only dispenser on

board, and at times the amount of work is overwhelming. There is no stint in the drug-supply, and the ship is fitted with modern conveniences, including a soda-water plant.

Miscellaneous.

Oils and Fats.—The Food Controller has taken over the Oils and Fats Department, which has been attached to the Ministry of Munitions.

Pharmacists' Volunteer Corps.—The notice has appeared in the "Gazette": "*D*" *Company* (*Pharmacist's*) *1st Batt. County of London V. Regiment*: E. A. Atkins to be temporary captain; G. Willsher, E. Skues, A. H. Jenkin, and C. Pratt to be temporary sub-lieutenants.

Enemy Trading.—A new consolidating list has been issued, containing the names of over two thousand persons and firms with whom persons in the United Kingdom are forbidden to trade under the Trading with the Enemy (Statutory List) Proclamation, 1916. A copy can be obtained for 6*d.* at H.M. Stationery Office, Imperial House, Kingsway, W.C.

Enemy Patents and Trade-marks.—Jeyes' Sanitary Compounds Co., Ltd., 64 Cannon Street, London, are applying for a licence to use Cassella's patent 24652/10, "Manufacture of 3.6. diamino-acridine and its derivatives" (this is the acriflavine patent). The hearing is on July 12.—Sir R. A. Cooper, Bart., carrying on business as Wm. Cooper & Nephews, chemical-manufacturers, Berkhamstead, is applying for licences to use patents 24117/08 and 27966/09, which have to do with the manufacture of drop-bottles. The hearing in these cases is on July 13.—Levinstein, Ltd., Blackley, are applying for the avoidance or suspension of the following trade-marks registered in the name of the Badischo Anilin & Soda Fabrik—82,317; 82,407; and 307,559. The hearing in these cases is on July 12.

Military Tribunals' Decisions.

Since our last issue the following decisions have been notified:

Aberdeen.—The position of one-man chemists and druggists' businesses was raised in two cases, Mr. William Turner and Mr. Robert Shand, but both claims were dismissed, Mr. Turner not to report for two months and Mr. Shand for three months. [These two one-man businesses have created great interest in Aberdeen, and the cases have been frequently revised. We understand that an appeal is to be made against the decision, as it is looked upon as a test case.]

Atherstone.—The appeal of Mr. A. C. Parkinson, chemist and druggist, was dismissed, but he is allowed a month's grace.

Blackheath.—Application for leave to apply was made by F. M. Ridout, unqualified assistant with Butcher, Curnow & Co., Ltd., chemists, but was refused.

Bucks.—Mr. William Oldham, Ph.C., 100 High Street, Eton, resisted the military appeal against exemption granted to Claude Pearson Whitehead, chemist's assistant, in his employ. The appeal was dismissed, and the exemption was confirmed.

Dorset.—On the appeal of the military authorities, Mr. C. H. Bullock, dispensing chemist, Weymouth, was exempted till September 30 only.

Eastbourne.—A number of cases of chemists and their assistants were reviewed at Eastbourne. The cases numbered thirteen, and after considering them privately the Tribunal decided to withdraw the conditional exemption certificates granted to three A1 men. The cases of two men, both aged forty-one, one passed B 1 and the other B 3, were adjourned for a month, the Tribunal desiring them in the meantime to make arrangements to assist other chemists in the matter of dispensing. The remaining conditional exemptions were confirmed.

Ellesmere (Salop).—Conditional exemption has been granted to Mr. Geo. McIntyre, chemist and druggist.

Gillingham (Kent).—Mr. William Kerr, chemist's assistant and dispenser, in the employ of the Timothy White Co., Ltd., although originally medically rejected, was appealed for by the company, who urged that now so many doctors had gone an extra burden and responsibility fell on the chemists. The appeal was not assented to, but Mr. Kerr is not to be called up for six weeks.—Mr. Thomas M. Williams, 72 Nelson Road, pharmacist, did not appear in connection with his review case, but a letter was read from the Surgeon-General at the Royal Naval Hospital stating that Mr. Williams' work was considered indispensable. The Tribunal decided to withdraw the certificate, leaving it to the Admiralty to take what action they might think necessary.

Gillingham.—Mr. R. S. Hardie, chemist and druggist, was granted three months' exemption on the appeal of his employer, Mr. C. E. Beveridge, chemist and druggist.

Hawick.—Mr. Geo. Pringle, agricultural chemist, has received one month's exemption.

Southwark.—H. E. Stevenson & Co., wholesale export druggists, of 122 Great Suffolk Street, S.E., applied for the further exemption of a works-manager, passed for general service. It was stated that the firm were engaged on class A work for the Government, and this was the only man they had left of military age. He was granted a month's exemption to allow the firm to obtain a certificate for him under the schedule of protected trades.—Captain R. Gosnell, who was in khaki, appeared to show cause why he should not sign the foreign service obligation. He is managing director of John Gosnell & Co., Ltd., perfumers, of 211-215 Blackfriars Road, who have sixty employés, and he was accompanied by his father, who said if it had not been for the war he would have retired from the business. Captain Gosnell had been nineteen years in the Volunteer and Territorial Forces, and is at present stationed at Colchester. So long as he remains in England he can conduct the business, with the assistance of his father, by correspondence, and by short visits to London when on leave. The Tribunal confirmed the certificate of conditional exemption.

Stamford.—Mrs. Dickinson appealed for her dispenser, S. Brown, and he is not to be called up until a qualified substitute has been found.

Warminster.—Two months' final exemption was allowed to W. A. Waite, assistant with Mr. Frank Cook, chemist and druggist.

Mr. Donald Maclean, M.P., Chairman of the House of Commons Appeals Tribunal, stated that it would be well in cases where men holding certificates of exemption from Tribunals receive notices calling upon them to be medically re-examined, that they should go at once to the office of the Tribunal from which they hold exemption and report the fact accordingly, and they would then be put right.

Personalities.

Mr. A. E. Hobbs, Ph.C., Tunbridge Wells, was appointed Director of Ceremonies at the annual meeting of the Provincial Grand Lodge of Kent Freemasons on June 27.

Mr. W. C. Church, manager of the United Drug Co., Liverpool, was among the guests at the dinner of the American Society in London, held at the Savoy Hotel on July 4.

Mr. D. J. Bailey, dispensing chemist, South Shore, has been appointed Vice-Chairman of the Blackpool Insurance Committee. He is also Chairman of the Medical Benefit Sub-Committee.

Mr. W. Hayes Fisher, M.P., has been appointed President of the Local Government Board, in succession to Lord Rhondda. Mr. Stephen Walsh, M.P., is to be Parliamentary Secretary to the Local Government Board.

Mr. Francis A. Hocking, B.Sc., pharmaceutist to the London Hospital, has been awarded the silver medal of the Royal Society of Arts for his paper on "The War and Our Supply of Drugs." The paper was printed in The Chemist and Druggist, March 10, p. 75.

Mr. Charles Bell, of Kingswood House, Shortlands, Kent, wholesale chemist, heretofore called and known as Charles Moritz Clemens Zimmermann, being British born, gives public notice ("London Gazette," June 26) that by a deed poll, dated June 12, 1917, he has adopted the surname of Bell instead of Zimmermann.

Among the Civil List Pensions granted during the year ended March 31, 1917, are the following: Mrs. Charlton Bastian (widow of Dr. Charles Bastian), 100*l.*; the three daughters of the late Professor Legros, 75*l.*; Mrs. Minchin (widow of Professor E. A. Minchin), 75*l.*; Mrs. Albert Gunther (widow of Dr. Albert Gunther), 70*l.*; and Mrs. Roland Trimen (widow of Roland Trimen, F.R.S.), 75*l.*

A Presentation was made on June 30 to Mr. H. T. Morey Attwell, a director of Edward Cook & Co., Ltd., Bow, London, E., to commemorate the completion of thirty years at The Soapery. This took the form of a gold chronometer, a clock and vases, and canteen, which had been subscribed for by Mr. Attwell's co-directors and the employés. Captain E. Leonard Cook was chairman at the meeting, and he was supported by Lieut. Edward Cook. Mr. Thomas Alexander Cook made the presentation, and there were other speeches before Mr. Attwell replied and thanked all the subscribers for their gifts. Mrs. and Miss Attwell were present, and came in for a hearty reception from the meeting.

English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

The Last Zeppelin Raid.

An employé of a London wholesale house who is in the Royal Army Medical Corps writes: "As you know, Sunday morning there was a Zepp raid in East Anglia. It was just by our reception hospital. The band began to play properly, and the planes went up. It was a beautiful sight. We could see it quite plainly. Suddenly the guns finished, and we saw the planes firing at it. She came down as usual, all afire, drifting to about three miles off. Directly she started to descend our ambulances were off to the scene, and got there first with stretchers, etc., bringing back to hospital two men in a dreadful state. We did the best we could for them, and sent them on to the general hospital. I went with one, the motor-driver, a typical German, and I had to assist there for five hours with lady doctor and other R.A.M.C. medicos and three nurses. They decided that nothing could be done for him. During the ride in the ambulance the poor chap kept crying out with pain, I giving him stimulants, bathing his face, etc. I really felt almost crying while doing it, and thinking he might have been with the rest in London and killed my own little family among others. It was an experience of a lifetime. The other chap I took on the stretcher to the hospital ward, and he was whimpering like a little child. He had fallen 12,000 feet; it was an awful sight."

Chemical-factory Fatality.

At the Hackney Coroner's Court this week, Dr. W. Wynn Westcott held an inquest with reference to the death of Thos. Chas. Skeats (59), a chemical operator employed by W. J. Bush & Co., Ltd., manufacturing chemists, Ash Grove, Mare Street, London, N.E. Dr. H. C. Dixon, who was called to the factory and found the man was dead, described the injuries to the body. He stated that the clothing was smothered with a fine pink powder. Dr. P. C. C. Isherwood, a director and a research chemist with the company, said the deceased was engaged as a chemical worker, and on the night of his death an explosion took place while he was separating precipitated salicylic acid from the mother-acid. The sludge was run into a hydro-extractor driven by steam, and the machine collapsed up under the influence of centrifugal force, deceased being struck by some pieces of the iron casing. Deceased had for two years been working the machine which was not a new one when purchased. A careful examination had been made, but no reason could be given for the bursting. St. Clair Grant, night foreman, said he saw deceased filling the cylinder, and some little time after witness heard the noise of an explosion. He found the deceased lying three yards from the machine, which was absolutely wrecked. After further evidence the jury returned a verdict of accidental death.

Security of Tenure for Poor-law Dispensers.

The Executive Committee of the National Poor-law Officers' Association is seeking the confirmation of the members, at the annual meeting to be held in London on July 7, the following recommendations to be placed before the Departmental Committee on Poor-law Orders, which vitally affect Poor-law dispensers:

I. That all officers having ten years' service should have a right of appeal to the Local Government Board in case of dismissal; and in case of termination of office from any cause, save grave misconduct, they should be entitled to compensation for loss of office.

II. That provincial dispensers should have the same security of tenure as dispensers appointed under the Dispensary Regulations (Metropolis) Order, April 22, 1871.

The first of these recommendations is a very necessary safeguard to the officer of long service, ten years being the earliest period that a pension can be claimed for sickness. The second recommendation does not cover all dispensers, as the Order of 1871 only regulates certain Metropolitan dispensaries.

Birmingham.

Among the Water Committee of Inspection who travelled last week to the Elan Valley Waterworks, belonging to the Birmingham Corporation, was Alderman Clayton, Ph.C.

Who is responsible for the order that has been issued that all blinds are to be drawn on and after July 1 at ten o'clock? At this time on that day it is almost as clear as midday has been for the past week.

Birmingham confectioners assembled last week to discuss the sugar restrictions, and resolved to organise and inform the authorities of the difficulties of the trade, with a view of obtaining some amelioration.

Mr. Kenneth Chance, who, according to Dr. Addison, has discovered a source of potash in this country, is a son of Mr. A. M. Chance, of Chance & Hunt, the Oldbury chemical-makers. Mr. Rossiter, of the British Cyanides Co., has also been concerned in the same discovery.

Captain Saundby, twenty-one years of age, son of Professor Robert Saundby, M.D., Birmingham, has gained the Military Cross for the gallant and successful part he played as an aviator in destroying the Zeppelin Z48, which was brought down in flames in East Anglia on June 16.

Liverpool.

The Liverpool Pharmacists' Training Corps held a successful parade on July 1.

A degree of slackness still characterises trade, but hopes are indulged that Lord Rhondda may be enabled to ease prices and promote purchasing of the high-class goods in which pharmacists deal.

Mr. W. P. Evans (President) and Mr. H. Humphreys Jones (ex-President) have been deputed to attend the British Pharmaceutical Conference in London on July 11 to renew the invitation (for a third year) for the Conference to visit Liverpool next year providing that the war be ended before January.

The Early-closing Association has opened a campaign for a continuance of the early-closing order (which lapses on September 30) with encouraging success at Liverpool, where the Lord Mayor convened a preliminary conference of traders at the Town Hall to meet Mr. E. Cubitt Sayers, J.P., Chairman, and Mr. Albert Larking, Secretary of the Association. It was agreed to hold a conference of traders under the auspices of the Trade Associations in Liverpool in regard to the matter on July 19, when the Lord Mayor will preside.

Manchester.

In view of the shortage of doctors the Manchester Insurance Committee has issued an appeal to insured persons not to make unnecessary demands upon the time and services of medical practitioners.

A well-dressed young lady, who has the appearance of almost "an official," has been going the rounds of several suburban pharmacies endeavouring to purchase "threepennyworth of diachylon." When asked for what purpose it is required her reply has always been the same, "I am sure I can't say."

The windows of several branches of a well-known firm of company chemists are now festooned with thousands of rubber sponges, priced, "To clear at 6*d.* each." A large store in the centre of the city is also offering at 6*d.* each the same class of rubber sponge, of which it is stated there are several thousands to offer. In another part of the last-named store hundreds of crêpe bandages are being offered at 2½*d.* each.

Sheffield.

Boots, Ltd., made a successful appeal to the Sheffield Tribunal for Mr. H. Osgathorpe, their stockkeeper. He has been granted conditional exemption.

J. Gilbert Jackson, Ltd., have been entrusted by the Ecclesall (Sheffield) Bierlow Guardians with the installation of a complete *x*-ray apparatus at the infirmary, which will then be the most up-to-date in this respect in the district.

A practice has sprung up lately among panel doctors to prescribe either an equal part of two stock mixtures or a stock mixture with an additional drug added. This has caused some uneasiness in the minds of chemists as to the proper dispensing-fee allowed in these cases. It is as well to state that where any alteration whatever is made in stock mixtures the North-East Midlands Pricing Bureau allows the full fee.

Miscellaneous.

ANALYSTS' FEES.—At a meeting of the Glamorgan County Council Finance Committee it was decided, in consequence of the increased price of chemicals, to pay the county analyst an addition of 25 per cent. to his fees.

BRIGHT LIGHTS.—At Exeter on June 26, Mr. Eric Lemmon, Ph.C., 47 High Street, was fined 5*s.* for a breach of the Lighting Order, he having omitted to switch off his electric light, which was burning in his shop at 11.40 P.M.

RAMSAY MEMORIAL FUND.—The Hon. Treasurers of the Ramsay Memorial Fund, Lord Glenconner and Professor Collie, have received the following among other subscriptions to the fund in response to the appeal which was recently issued: The United Alkali Co., Ltd., 500*l.*; Dr. J. J. Acworth, 250*l.*; Mr. E. Muspratt, 200*l.*; Sir Jesse Boot, 105*l.*; Mr. F. D. Godman, 100*l.*; Lord Iveagh, 100*l.*; Dr. G. B. Longstaff, 100*l.* The total now amounts to 17,379*l.*

Irish News.

Brevities.

Mr. W. Hopkins Ashmore, Ph.C., Dawson Street, has been elected a member of the Council of the Dublin Citizens' Association.

Alderman J. C. McWalter, M.D., Ph.C., M.P.S.I., etc., who is a captain in the Royal Army Medical Corps, has been on a visit to Dublin.

At the recent examination at Queen's University, Belfast, Miss Dorothy I. Dobbin received the degree of M.B., B.Ch. Miss Dobbin is a daughter of Mr. William C. Dobbin, Ph.C. (William Dobbin & Co., Ltd., Belfast).

Mr. H. G. Grantham has temporarily relinquished his position as representing Allen & Hanburys, Ltd., in Ireland and part of the West of Scotland. He has joined the Colours, and is commencing training in an officers' cadet unit.

Dr. James S. Ashe, Ph.C., a prominent Dublin physician, formerly an assistant in Graham's Medical Hall, Westmoreland Street, Dublin, is contesting the South Dublin Parliamentary constituency in the Unionist interest. He is of opinion that there ought to be greater medico-pharmaceutical representation in the House of Commons.

Major Horace R. Haslett, Royal Irish Rifles, who was wounded last week, is a son of the late Sir James Haslett, M.P., Belfast. He is a director of J. & J. Haslett, Ltd., chemists and druggists, North Street, Belfast. He joined the Army in 1914, and was dangerously wounded in 1916, losing an eye. He returned to the Front recently, and was appointed second in command of a Belfast battalion. His brother, Captain J. R. Haslett, is also in the Service.

Scottish News.

Brevities.

Dr. J. F. Tocher, referring to a series of experiments on bacterised peat carried out at Craibstone last year, states that even though the further experiment now in progress were a failure it does not necessarily prove that nitrogen-fixing organisms are really useless. The question would yet have to be considered whether artificial bacterial enrichment of soils is or is not a practical proposition in agriculture.

Edinburgh.

A naval ambulance train, with dispensary, surgeon's cabin, etc., has been on view at Princes Street station this week.

A doctor advertises that his morning hour for consultation is from 9.15 to 10 A.M. This must be one of the shorter hours that were once so unattainable.

The employés of Mr. Duncan McGlasken, Abdine Works, had their annual outing on June 30. Sports and dancing were engaged in on the banks of the Esk.

At a sports meeting in connection with Scotland's Red Cross Week, on June 30, A. Ireland (with Raimes, Clark & Co., Ltd.) and Lance-Corporal Tancy Lee were opponents in a four-round exhibition contest.

The public seems to have got hold of a rumour concerning the ill effects of saccharin. Chemists in several districts report inquiries as to the risk of cancer or heart-disease following upon the use of saccharin.

The three Bureaus in Edinburgh in connection with the administration of Medical Benefit under the National Insurance Act started operations on July 2. The doctor who sees a patient that may require further treatment leaves a record of his diagnosis at the Bureau in case another doctor may be in attendance when next the patient calls.

Glasgow.

A Glasgow young woman has been sent to prison for six months for throwing oil of vitriol on two men.

The recent advance in the price of soap, of which the manufacturers have given notice, has resulted in an inevitable increase of another ½*d.* on the popular soap-tablets. The price of the old 2*d.* tablet is now 3½*d.*

In aid of the Scottish branch of the British Red Cross Society a Red Cross Week is being held this week. Among the many attractions there will be Shakespearean Fêtes each day in the Botanic Gardens. The sum aimed at is 100,000*l.*

Legal Reports.

Pharmacy Act, 1868.—At the Bloomsbury County Court on June 22, Noble's Drug-stores, Ltd., 51 Watney Street, Commercial Road, London, E., were fined 5*l.*, and costs, for keeping open shop for the sale of poison, the sale (white precipitate) having been made by an unregistered person, and no certificate of qualification being exhibited in the shop.

Glucose Contract.—In the High Court last week Mr. Justice Bray delivered judgment in favour of the plaintiffs in the case of the Corn Products Co., Ltd., *v.* Fry & Sons, Ltd. The dispute arose over a contract for Crystal Corn Syrup, one of the terms being that the defendants should request deliveries during January. No request was made, and the Judge thought plaintiffs' liability to deliver was at an end on February 1, the defendants having broken their contract.

Dismissing a Lady Clerk.—On June 28, in the City of London Court, Miss Myfanwy Lewis sued Laughland, Mackay & Co., Ltd., Australian merchants and shippers, Lime Street, for 8*l.* 15*s.* for a month's salary in lieu of notice. The staff of forty clerks was given a holiday on the Saturday before Whitsuntide, and plaintiff went to Netheravon, Wilts. Her return was delayed until Thursday, when she was paid her wages then due, and after doing a day's work was dismissed summarily. Judge Atherley Jones, K.C., said that the defendants should have given plaintiff a month's notice and not dismissed her summarily. Judgment was given for the plaintiff, with costs.

Alleged Breach of Contract.—The action brought by the Associated Enterprises, Ltd., Liverpool (a company controlled by Lever Bros.), against Brunner, Mond & Co. (*C. & D.*, June 30, p. 38) in respect of alleged breaches of an agreement of June 1913, was further heard before Mr. Justice Atkin, in the King's Bench Division, up to June 29, when his Lordship, having to fulfil a circuit engagement, adjourned the case until July 11. It was stated by counsel that it was hoped to complete the case then by July 31—the close of the term before the Long Vacation. Mr. Justice Atkin said it would be a "public calamity" if the case had to go over the Long Vacation. After Lord Leverhulme had completed his evidence Sir John Simon, K.C., called Mr. James Quinn, the manager in China of Lever Bros. (China), Ltd., Mr. Spencer, an accountant, and other witnesses, and the plaintiffs' case was concluded. Mr. Upjohn, K.C., outlined the points that would be taken for the defendants. He contested the view that the plaintiffs had in any way proved any act or omission by the defendants that was in contravention of the agreement. It was not alleged that the defendants were parties to the alleged agreement for the sale of the Chinese assets of Crosfields and Gossages to a new company, it was only said that they had approved of it; and how far approving of it, or having to do with the promotion of it, was a breach of the 1913 agreement was a question of law. He submitted also that the plaintiffs had not established that there was conflict between the 1913 agreement and the "China" agreement. The latter was only a "pool" of the businesses of Crosfields, Gossages, and Prices for the purpose of avoiding competition. It was merely an ordinary and up-to-date method of doing business, such as Lever Bros. had, upon the evidence of Lord Leverhulme, themselves adopted.

Prize Court Cases.—The Crown, in the Prize Court on June 28, asked the President to deal with, under the Reprisals Order, a large quantity of articles seized on the Norwegian vessel *Sigurd*, in all 1,223 packages, including twenty-five barrels of bicarbonate of soda, twenty-five barrels of Epsom salts, twenty-five cases of sulphate of soda, twenty-five barrels of alum, ten barrels of zinc-white, ten cases of lampblack, twenty cases of castor oil, five cases of toilet-paper, ten barrels of white lead, 100 cases of sulphate of copper, two cases of gelatin, and fifteen cases of borate of magnesia. Counsel for the Crown said the case affected a large number of other cases, and the question was whether the *Sigurd* sailed from a port other than a German port after March 1, 1915, and under the Reprisals Order, Section 4, having on board goods of enemy origin or enemy property, could be required to discharge in a British or Allied port. The goods were shipped at Hamburg for Concepcion, Chili, under bills of lading July 27, 1914, before the outbreak of war. The vessel sailed on October 21—the war must have detained her—was damaged in the North Sea, put into Christiania on October 28, was towed to Stavanger, and there repaired. When eventually she sailed from Stavanger she was stopped by a British patrol on April 5, and sent to Stornaway,

and then to Swansea to discharge. The detention of the cargo was asked for under the Reprisals Order on the strength of her sailing with such a cargo from Stavanger after March 1. The claimants, Weber & Co., of Chili (represented by Mr. Mackinnon, K.C.), urged that the vessel did not sail from her port of departure or from a German port after March 1, and so was free, and the goods were their property as neutral claimants. His Lordship said he must take the view that consignments here must be released to Weber & Co. Remembering that the object of the Order in Council was to restrict the commerce of Germany after March 1, 1915, he had come to the conclusion that the vessel and goods must be dealt with by reference to the implied immunity in Article 2, which let a merchant ship proceed which sailed with goods laden at a German port before March 1, 1915. The Crown gave notice of appeal, and his Lordship said the claimants' application for costs and damages could be presented to the Privy Council.

Milk-drying Patent.—In the Chancery Division on July 3, before Mr. Justice Astbury, an action was commenced respecting the alleged infringement of the patent for preserving and drying milk, in which Mr. J. R. Hatmaker, Paris, was the plaintiff, and Joseph Nathan & Co., 88 Gracechurch Street, London, E.C., were the defendants. Sir John Simon, K.C., M.P., Mr. J. W. Gordon, K.C., and Mr. Abady were for the plaintiff; Mr. A. J. Walter, K.C., Mr. Colefax, K.C., and Mr. Hunter Gray were for the defendant. Sir John Simon, K.C., stated that these were two actions, which had been consolidated, respecting the alleged infringement of the patent granted to Dr. John Augustus Just, an American chemist, for drying and preserving milk and milk-like products. The plaintiff, Mr. Hatmaker, was the registered proprietor of the patent. Defendants were dealers in dairy produce, and they had a large dairy installation in New Zealand. They are the proprietors of a much-advertised dry-milk food known as "Glaxo." The first action was started on July 31, 1915, complaining of an alleged certain infringement of the patent. The second action, started on December 24, 1915, was brought in respect of an alleged further infringement. The allegation is that "Glaxo," which had been made from dry milk products, is an infringement of the plaintiff's patent. The process invented by Mr. Just is a most remarkable and fruitful discovery. It upset all preconceived ideas how dried milk could be produced. After the invention was patented, the process was exhibited at the Royal Agricultural Society's show at Park Royal and several of the leading Continental shows. Seventy-two licences for this patent were taken. Among the licences granted was one to Mr. Lewis Nathan, for Argentina. A company was formed which obtained a licence from Mr. Hatmaker for the manufacture of the milk powder in South America. About the same time a licence was granted for the company to import powder. This company was eventually wound up. Sir John submitted that there had been a deliberate infringement of the patent, and that the plaintiff was entitled to an inquiry for damages. Expert evidence was called in support of plaintiff's case. Dr. Passmore, analytical chemist, of London, gave evidence as to the specifications of different processes of milk-drying. Mr. Frederick Jackson, a licensee, and Mr. Ernest Matthews said they had found the Just-Hatmaker method satisfactory. Mr. J. R. Hatmaker, the plaintiff, an American citizen long resident in Paris, said he had been the proprietor of the Just patent since 1903. He paid Dr. Just, the inventor, 20,000*l.* for the patent-rights for use outside the United States and Canada. In 1904 the process was publicly exhibited in Paris, Dantzic, Park Royal, and Lancashire. Within a year and a half he delivered seventy-one machines. Each machine was equal to "five hundred cow-power per day." Down to 1904 dried milk as a commercial product was practically unknown, but in the following year the importations into the United Kingdom were 6,000 cwt., and in 1915 over 50,000 cwt. Mr. Louis Nathan, one of the defendants, acquired from him the Argentine and Uruguay rights for 10,000*l.* Almost contemporaneously Mr. Nathan obtained the option for Australasia, for which he gave 10,000*l.* in cash and 18,750*l.* in shares, and there were royalties in addition. Matters went on well for a few years; then the company which was formed to work the option went into liquidation. Plaintiff in 1915 heard that the defendants had milk-drying works in France, and he went to a town in the district of Calvados and found that it was so. He obtained from a French Court of law an order to enter the premises, and found the milk-drying was being carried on there. He had examined samples of "Glaxo" made by the defendants, and was satisfied that it was manufactured by his own process. In fact there was no material difference between "Glaxo" and his own article.

New Companies
and Company News.

P.C. means Private Company and R.O. Registered Office.

PONDS EXTRACT CO.—Particulars filed June 30. Registered in Delaware, U.S.A., April 28, 1914. Principal office: Dover, Kent, Delaware, U.S.A. British address: 71 Southampton Row, W.C. 1, where A. J. F. Gunning is authorised to accept service.

C. E. GALE ARTIFICIAL LIMB CO., LTD. (P.C.).—Capital 3,500*l.* Objects: To apply for, purchase, or otherwise acquire any patents, etc., in relation to the manufacture of artificial limbs, orthopædic instruments, and apparatus generally. R.O., 54 Great Tower Street, London, E.C.

J. B. WILLIAMS CO.—Particulars filed June 30, 1917. Registered in Connecticut, U.S.A., January 9, 1885. Manufacturers of shaving, toilet, and laundry soaps, etc. Capital $250,000. British address: 71 Southampton Row, W.C. 1, where A. J. F. Gunning is authorised to accept service.

PRONK, DAVIS & RUSBY, LTD. (P.C.).—Capital 10,000*l.* Objects: To take over the business carried on at 13 Haydon Street, London, and elsewhere, as Pronk, Davis & Co., and to carry on the business of dealers in aniline and other dyes, colours, chemicals, etc. The first directors are E. I. Pronk, A. E. Davis, and R. W. Rusby.

ANGLO-COLONIAL DYES, LTD. (P.C.).—Capital 100,000*l.* Objects: To carry on business as dye-makers, distillers, chemists, drysalters, oil and colour-men, importers and manufacturers of and dealers in dyes, coal-tar, picric acid, gums, oils, paints, pigments, varnishes, etc. Solicitors: Ashurst, Morris, Crisp & Co., 17 Throgmorton Avenue, London, E.C.

GROSVENOR PHARMACY, LTD.—This company is to be wound up voluntarily. Mr. C. H. Gooding, 6 Green Street, Bath, has been appointed liquidator.

R. WHITE & SONS, LTD.—The directors announce a dividend of 5 per cent. (5*s.* per share), less income-tax, on preference shares for the two half-years ended May 31, 1914, and May 31, 1915.

"SANITAS" CO., LTD.—The annual meeting was held on June 27 at Winchester House, Old Broad Street, E.C. Mr. C. T. Kingzett, F.I.C., F.C.S. (chairman and governing director), presided, and in moving the adoption of the report and accounts (see *C. & D.*, June 16, p. 38) referred to the striking increase in the company's export trade, due, no doubt, to a large extent to the cessation of foreign and German competition. The report and accounts were unanimously adopted.

A. J. WHITE, LTD.—The annual meeting was held on June 29 at the Memorial Hall, Farringdon Street, E.C., Mr. J. Taylor Marsh (chairman) presiding. In moving the adoption of the report and balance-sheet (*C. & D.*, June 23, p. 39) the Chairman alluded to the necessity of carrying considerably heavier stocks in every branch of the business, and to the great difficulties under which they were carrying on. The company had sufficient supplies to assure the whole of the present year's trade. The report was unanimously adopted.

BRUNNER, MOND & CO., LTD.—Sir John Brunner presided at the annual meeting, held at Liverpool on June 28, and, in moving the adoption of the report, said no estimate had been made of excess-profits tax, of which they made no complaint, but they had carried forward 216,000*l.*, against 121,000*l.*, and it was estimated that this difference would amply suffice. The suspense account now stood at 244,000*l.*, which was regarded as ample. The recent arrangement with Chance & Hunt was a perfectly friendly bargain, consequent upon the retirement of the firm's senior directors, and the purchase gave Brunner, Mond & Co. a controlling majority of the ordinary shares and the right to buy the remainder between the years 1919 and 1921. Brunner Monds would have full control and full responsibility over the company, and the directors were convinced that the bargain would be to their benefit. The Ammonia Soda Co. was now, by the help of prices induced by war scarcity, trading at a profit, but he warned the meeting that the profit could not cover the final loss on the winding-up of the company, though, having written off all the loss, it need not trouble them. Replying to the speech of the Chairman of the Magadi Soda meeting (*C. & D.*, June 30, p. 38), Sir John said it was certainly not the case that they were selling cheaper in India at the expense of English customers, and they had received many letters of thanks for having kept the English works going. The dividend, making 27½ per cent. for the year, was agreed to.

Westminster Wisdom.

By the "C. & D." Parliamentary Representative.

Companies (Particulars as to Directors) Bill.

This Bill was read a second time in the House of Lords on July 3.

Yield of Increased Duties.

The Chancellor of the Exchequer announced on July 2 that the revenue derived in 1913-14 from sugar, molasses, glucose, and saccharin, and articles containing these (imported and home-made), was 3,328,635*l.*; in 1914-15, 3,265,754*l.*; in 1915-16, 9,023,068*l.*; and in 1916-17, 18,328,931*l.* Table-waters and cider (imported and home-made) in 1916-17 produced 1,241,175*l.*

Nestlé and Anglo-Swiss Condensed Milk Co.

In the course of a lengthy inquiry in the House of Commons on June 28, Captain Wright asked whether the Nestlé and Anglo-Swiss Condensed Milk Co. controls the following products: *Condensed milk*: Nestlé's, Milkmaid, Gold Medal, Ideal, Superb, and Viking; *Foods*: Nestlé's Milk Food and Milo Food for infants and invalids; *Chocolates*: Peter's Milk, Cailler's Milk, Nestlé's Milk, and Kohler's; and has been given special facilities to import some or other of the above during the war.

Mr. G. H. Roberts, M.P., for the Board of Trade, replied that the company is interested in, but does not control, the brands of chocolate mentioned. He is not aware of any special facilities having been given to the company to import any of the products referred to. He has seen an extract from a German newspaper showing that in October 1914 the company had a branch in Germany and was publishing in Germany the fact that it was a company formed with Swiss capital under Swiss law, but the company's property in Germany was disposed of last year.

Traffic in Opium and Cocaine.

Sir William Collins on June 28 asked the Home Secretary whether Regulation 40 B in the Order of Council, No. 501, of July 28, 1916, which restricts the traffic in opium and cocaine to that required for medicinal purposes, applies also to morphine, the principal alkaloid of opium; and, if not, whether, in view of the abuse to which that drug is liable, he will bring to the notice of the Privy Council the desirability of extending the order so as to include morphine, its salts, and preparations.

Sir G. Cave replied: Regulation 20 B does not apply to morphine. The Regulation is an emergency provision made under the powers of the Defence of the Realm Act; and I am not at present aware of any special grounds, arising out of the present emergency, for exercising those powers in regard to morphine. The inclusion of opium in the Regulation was necessary in order to put a stop to the illicit export of opium in contravention of the Proclamation.

On the same afternoon Sir William Collins asked the Foreign Secretary whether any communications had taken place with the Japanese Government in reference to the imports of morphia of British manufacture entering Japan and passing thence to China, and whether, seeing that China and Great Britain are signatories to the International Opium Convention of 1912, which includes morphia, steps will be taken with a view to restrict the traffic in that drug to legitimate and medical purposes only as provided in the Convention.

Mr. Balfour, in a written answer, replied: Our Ambassador at Tokio has been consulted in this matter, but the Japanese Government has not yet been actually approached. The other Departments concerned are at present considering what steps can properly be taken to restrict the traffic in morphia.

Chemical Munitions.

Dr. Addison, Minister of Munitions, gave in the House of Commons on June 28 some interesting particulars regarding the production of explosives in this country. The capacity for the production of high explosives in March 1917 was four times what it was in March 1916, and twenty-eight times as great as that of March 1915. He added that the Explosive Supply Department of the Ministry, of which Lord Moulton is Director-General and Sir Keith Price his deputy, is intimately concerned with the great chemical trades. It is responsible for the sulphuric acid necessary for the manufacture not only of explosives, but of superphosphate and artificial manures generally, as well as for that of a great many other commodities. Under recent arrangements with the Food Production Department, a section of the Explosives Supply Department has been started for the provision of all the artificial manures which are required. By our control of the iron and steel industries we are able to provide all the basic slag needed, and there is little doubt that we shall be able to meet the programme which has been supplied to us, requiring at least 1,000,000 tons of superphosphate, nearly 500,000 tons of basic slag, and 250,000 tons of sulphate of ammonia. Hitherto this country has been entirely dependent upon Germany for its supplies of potash, and the Germans expect after the war to hold us to ransom on this account. Thanks, however, to the ingenuity of Mr. Kenneth Chance and other gentlemen working with him, a process has been discovered whereby great quantities of potash may be obtained, and the development of the scheme is now in operation with the assistance of the Ministry. We shall be able to provide every ounce of potash that the glass-trade requires, as well as very largely to meet the needs of agriculture. Another case which affects German competition relates to the production of sulphuric acid. The production of sulphuric acid in this country has necessarily undergone great development, not only in private works but in our own factories. Especially is this the case with regard to the strong fuming variety, of which the present capacity for production in this country is more than fifteen times greater than it was before the war, while it is being produced at a much less cost. It is sometimes said that the progress of a country may be measured by the quantity of sulphuric acid which it requires per head of its population, and there is a good deal of truth in this statement. Whatever arrangements are made for the future, it is essential to secure that sulphuric acid is made available to *bona-fide* users at fair rates, for if this is done it should lead to the establishment of an important group of new industries. Later on Dr. Addison referred to the group of new industries connected with the glass-trade, which has been placed on a secure foundation through the processes for manufacturing glass worked out by Professor Jackson and his colleagues. The production of spelter in this country will, by the end of the year, be double what it was before the war, part of the scheme involving the use of the Australian ores which had previously been under the control mainly of German companies. We are now able to produce in this country all the tungsten required for national purposes. Schemes are at present in hand for the use of gasworks ammonia and for the production of cyanide. These proposals are founded upon the works of the Nitrogen Products Committee.

Sir William Pearce subsequently took up the point regarding the manufacture of chemical products. He spoke of the great achievements of Lord Moulton's Department in producing enormous quantities of T.N.T., so that now we have plenty both for ourselves and for our Allies. In regard to Mr. Kennedy Chance's process for supplying potash, Sir William thought Dr. Addison had perhaps overstated the results: he took it to refer only to the potash required for optical glass. Sir William said he was disappointed at the tribute paid to the chemical-industry as a whole. The whole of the manufacturers who had been making fertilisers had their production curtailed at the beginning of the war, and the whole of the sulphuric acid was also put at the disposal of the Government. It is now necessary to have a licence to manufacture sulphuric acid and a licence to supply it, and it is within the power of the Ministry to-day to close any works, to take away their customers and give them to somebody else. After the war there will be a large excess of sulphuric acid—some 400,000 to 500,000 tons—too much for the country. Manufacturers have been taught by the war the necessity of introducing scientific principles into manufacture. After the war there will be hundreds, possibly thousands, of trained chemists and engineers at the disposal of the manufacturing industries, a fact which must be attended with great results.

Sir Worthington Evans, replying to Sir William Pearce, said that the Government does not intend to work the sulphuric-acid factories after the war, but a scheme is being elaborated which, without sacrificing Government assets, will do no injustice to those who were in the business before the Government came in.

Business Change.

Geo. Curling, Wyman & Co., wholesale druggists, Bunhill Row, London, E.C., have admitted as a partner Mr. Kenneth George Shaw, the younger son of the senior partner. Mr. K. G. Shaw is a lieutenant in the Army Ordnance Department, and has been on active service in France since September 1914. His elder brother, Mr. F. C. Oscar Shaw, who became a partner in the firm in 1914, is also on active service, and is a lieutenant in the Royal Flying Corps.

Birth.

MORSON.—At 27 Briardale Gardens, Hampstead, N.W., on June 26, the wife of Thomas Dagomet Morson (Thomas Morson & Son. Ltd.), of a daughter.

Marriages.

O'TOOLE—BURKE.—At Miltown-Malbay Parish Church, on June 19, by the Very Rev. Canon Hannon, P.P., Peter J. O'Toole, Ph.C., Cork, to Delia, youngest daughter of the late Patrick Burke, Miltown-Malbay, county Clare.

SLATTERY—CAGNEY.—At the Church of St. Mary, Haddington Road, Dublin, on June 27, by the Rev. T. Barry, C.C., Dolphin's Barn, Denis P. Slattery, Ph.C., the Medical Hall, Castlepollard, to Elizabeth, daughter of the late Dr. Cagney, Charleville, co. Cork.

Deaths.

BARNES.—At Pusa, Behar, India, on June 2, of enteric, Professor James Hector Barnes, B.Sc., F.I.C., F.C.S., Imperial Agricultural Chemist to the Government of India, late Principal Lyallpur Agricultural College.

BIRDWOOD.—At Ealing, on June 28, Sir George Birdwood, M.D., aged eighty-four. He took his degree at the Edinburgh University in 1854, and was appointed to the Medical Service in Bombay by the East India Company. Afterwards he was appointed Professor of Anatomy and Physiology at the Grant Medical College, subsequently filling the chairs also of botany and materia medica. Sir George, who was knighted in 1881, will be remembered as the discoverer of the true frankincense-trees. His first task on returning to England in 1872 was to contribute to the Linnæan Society a paper on the "Genus *Boswellia*, with descriptions and figures of three new species." The frankincense of the ancients, he showed, was in all probability the gum-resin olibanum, which flows from the *Boswellia serrata* (or *thurifera*). Birdwood found it in various parts of India, and his view regarding it has been generally adopted. The paper, it is interesting to add, was communicated to the Linnæan Society by Daniel Hanbury, F.R.S.

PETERSEN.—At his residence, "Glenmore," Mains Avenue, Kenilworth, Cape Town, on June 7, after a brief illness, Mr. D. K. Petersen, governing director of Petersen, Ltd., wholesale druggists and manufacturing chemists, Cape Town, aged sixty-two. The business with which Mr. Petersen was connected was one of the largest concerns in the Union, and was established in Cape Town in 1842 by the late Mr. P. J. Petersen, father of Mr. D. K. Petersen, who succeeded to the business in 1886 and controlled its destinies until his death. During this period the firm established a number of branches throughout South Africa and largely developed the manufacturing side of the business. In 1907 the concern was converted into a limited liability company with a capital of 150,000*l.*, Mr. D. K. Petersen being governing director, the other directors being the Hon. A. H. Petersen, M.D., M.L.C., and Mr. Harry Evans. The Petersen family is a very old one in the Cape and highly respected.

MR. D. K. PETERSEN.

BIRKELAND.—At Tokyo, on June 18, Professor Kr. Birkeland, Christiania. He was a well-known physicist, and was the co-inventor, with Mr. Sam Eyde, of the Birkeland-Eyde process for making calcium nitrate from the nitrogen of the atmosphere. "He had," states "Nature," "bold theories on the internal constitution of the sun and the nature of sunspots, on the sun as a magnet and as a source of electricity, on the origin of the planets and their satellites, on the nature of various celestial phenomena, especially the zodiacal light, on the production of aurora and magnetic storms, and on the past geological history of the earth." Many experiments were conducted by Professor Birkeland with a view of confirming his theories.

CLOTWORTHY.—At Belfast recently, Mrs. Samuel Clotworthy, widow of the late Samuel Clotworthy, who was one of the leading chemists in Belfast many years ago.

Died on Service.

AKED.—Private Clement Aked, West Yorkshire Regiment, who has been killed in action, is a brother of Mr. W. R. Aked, chemist and druggist, Lancaster.

COMBE.—Lieutenant Robert Grierson Combe, who has been awarded the Victoria Cross, was in civil life a chemist and druggist, serving his apprenticeship to Mr. William F. Hay, of Aberdeen. Ten years ago he emigrated to Canada, and started business on his own account at Melville, Saskatchewan. He joined the Colours at an early stage of the war, and came over more than two years ago with one of the first of the Canadian contingents. He had been on active service on the Western Front for a considerable time with a Canadian Infantry battalion. The circumstances under which he gained the Victoria Cross are narrated in the "London Gazette" as follows:

"Lieut. Combe steadied his company under intense fire, and led them through the enemy barrage, reaching the objective with only five men. With great coolness and courage Lieut. Combe proceeded to bomb the enemy, and inflicted heavy casualties. He collected small groups of men and succeeded in capturing the company objective, together with eighty prisoners. He repeatedly charged the enemy, driving them before him, and, whilst personally leading his bombers, was killed by an enemy sniper. His conduct inspired all ranks, and it was entirely due to his magnificent courage that the position was carried, secured, and held."

DAWSON.—Lance-Corporal Arthur Dawson, Royal Fusiliers, who has fallen in action, was the elder son of Mr. Walter Dawson, of Milnsbridge, and a member of the firm of Dawson & Emerson, chemical-manufacturers, Longroyd Bridge, Huddersfield.

PRENDERGAST.—Lance-Corporal John W. Prendergast, East Lancashire Regiment, of Manchester Road, Hapton, has been killed in action. Whilst digging a trench his pick struck an explosive shell, and seven other men were wounded. He was twenty-nine years of age, and before enlistment was employed by J. Riley & Sons, chemical-manufacturers, Hapton, Burnley.

THOMAS.—Private H. Idris Thomas, of the South Wales Borderers, was killed in action in France, on June 7, aged twenty. Private Thomas was attached to the Pioneer Battalion, and had only been in France a few weeks before he fell. Prior to joining the Army he was an assistant with Boots, Ltd., at their Ebbw Vale branch. Mr. John Gower, M.P.S., writes of him: "From information received we gather that he was well liked by the officers and men of his battalion; he was also liked by all who came in contact with him, and he leaves a number of sorrowing friends in Ebbw Vale and Brynmawr."

TULLEY.—Flight Sub-Lieutenant John Rudrum Tulley, R.N., was killed in France on June 29. He was the eldest son of Mr. F. R. Tulley, chemist, 36 Great St. Helens and 2 Camomile Street, London, E.C.

WILLDEY.—Reported missing on July 15, 1916, now officially presumed killed on that date, Gilbert Bennell Willdey, Royal Warwickshire Regiment, only son of Mr. W. T. Willdey, "The Chestnuts," Water Orton, aged nineteen. Mr. W. T. Willdey is the well-known representative of Evans Sons Lescher & Webb, Ltd., Liverpool, to whom and his wife the deepest sympathy of his many friends will be extended.

Wills.

MR. ALFRED GREEN, chemist and druggist, Bella Vista, Wakefield, who died on May 11, left estate of the gross value of 9,061*l.* 9*s.* 6*d.*

MR. JOHN BREWIS, chemist and druggist, Warnford Cottage, Kilburn, near Thirsk, left estate valued at 4,056*l.* 17*s.* 7*d.* gross, with net personalty 520*l.* 0*s.* 6*d.*

MR. ALFRED WATERWORTH, Silverdale, retired chemist, who died on April 23, left estate of the gross value of 4,681*l.* 17*s.* 4*d.*, of which 431*l.* 16*s.* 9*d.* is net personalty.

MR. THOMAS DEXTER ROBINSON, Ph.C., 17 High Street, Haverhill, who died on May 6, intestate, left estate valued at 1,090*l.* 8*s.* 11*d.* gross, with net personalty 557*l.* 4*s.* 3*d.*

MR. JOHN BOWENS MORGAN, Westgate House, Newport, Pembroke, retired chemist, who died on May 15, left estate of the gross value of 1,176*l.* 1*s.*, of which 1,009*l.* 13*s.* 5*d.* is net personalty.

Trade Notes.

SHAMPOO-POWDERS are the feature of the advertisement in this number of William Toogood, Ltd., 77 Southwark Street, London, S.E. 1. The varieties are Pine, Henna, and Pine and Henna.

CUTOLAV.—The prices—wholesale and retail—of Cutolav, the new toilet-soap produced by Price's Candle Co., Ltd., are given in the company's advertisement to show that the soap carries a good profit.

"TURNS BABY'S TEARS TO SMILES" is the happily conceived sentence which is being employed by Wm. Browning & Co., manufacturing chemists, Albert Works, Park Street, Camden Town, London, N.W. 1, in reference to "Carmex."

WILEY'S CHEMICAL ESSENCE.—Mr. F. E. Rookledge, Easingwold, the proprietor of this old-established remedy, announces an alteration in the retail price to 2*s.* and 3*s.* 6*d.* The advertisement also contains an offer to exchange shop-worn stock free.

HAWLEY'S I.K.—A smart page in this issue is devoted to Hawley's I.K. (insect-killer). The makers, Evans Sons Lescher & Webb, Ltd., Liverpool and London, offer to supply advertising folders to chemists who apply, a facsimile of the cover being given in the advertisement in this issue.

"SANGERS' MONTHLY LIST" for July contains alterations in prices since the last issue. Special lines are "Gladclif" vermin-proof shirts for soldiers in the trenches; and, for Baby Week, Cleanesi feeder-valves and baby-soothers. Altered prices of "1814" Eau de Cologne and lavender-water are also noted. These prices are given in the firm's advertisement in this issue.

BIENNIAL HENBANE.—We printed in THE CHEMIST AND DRUGGIST, June 23, p. 52, an illustration of a field of henbane at the drug-farm at Melford of Stafford Allen & Sons, Ltd., Cowper Street, Finsbury, London, E.C. 2. We have since received a fine specimen of the new season's second-year henbane collected from this plantation. The quality is exceptionally fine this season, the sample being a perfect standard.

NATRO-CUPRYL is a powder form of Burgundy mixture which is supplied by W. J. Craven & Co., horticultural chemists, Evesham. The firm also supply precipitated copper for dry spraying. Particulars of these products are given in an advertisement in this issue. We note from the "Evesham Advertiser" that Messrs. Craven are helping considerably in the Food Controller's campaign by demonstrating locally the best methods of spraying potatoes and fruit-trees.

HALAZONE.—Burroughs Wellcome & Co., Snow Hill Buildings, London, E.C. 1, are, so far as we are aware, first in the field with halazone, the new water-steriliser, to which reference was made recently in the *C. & D.* (June 2, p. 43, and June 9, p. 52). Tabloid halazone is sent out in bottles of a hundred. One or two tabloid halazone are sufficient to sterilise a quart of water, the procedure being very simple. The halazone is merely dissolved in the water and the solution allowed to stand for about forty minutes before use.

COPPER SULPHATE.—The Mond Nickel Co., Ltd., 39 Victoria Street, London, S.W., have issued a booklet entitled "Copper Sulphate: Its Use in Farming and Gardening," which deals in an interesting and practical manner with the use of copper sulphate in agriculture. Exact directions are given not only of the uses but the precise formula to employ for particular purposes and the quantity for given acreage. The pamphlet gives just the points upon which chemists are asked by their customers to give advice. We recommend our readers to apply for a copy of this booklet.

ANTI-STING LOTION.—Arthur H. Cox & Co., Ltd., manufacturing chemists, Lewes Road, Brighton, introduce a special line in anti-sting lotion. We have had an opportunity of examining this, and find it a pleasant smelling liquid. It was invented, we are told, by a medical man who lived for several years in Central Africa, where he had ample opportunities of testing the lotion. There is a good demand for such a lotion at the present time, and this one bears a good profit. Another new line is thymol tooth-powder, which is designed to take advantage of the exceptional properties of thymol as an oral antiseptic. It is a companion to the company's thymol tooth-paste.

"DAISY" TABLETS.—Daisy, Ltd., Mammoth Works, Leeds, have reduced the price of "Daisy" tablets to buyers of one dozen tins. An advertisement in the Coloured Supplement calls attention to this and also to a special bonus of quarter-dozen tins which is offered to all buyers of one dozen tins. "Daisy" tablets were introduced last January, and have proved such a success that a new and more ambitious advertising-campaign to the public is being started. It is with a view of encouraging chemists to carry ample stock to meet the demand that is to be created in this way that the proprietors are putting out the offers referred to above. The conditions of the bonus offer are stated in the advertisement.

GERMAN JEALOUSY.—The "Apotheker Zeitung" is trying to impress on its readers that English business houses "carry on politics with their business and gain further business through political ties." An example is given of Burroughs Wellcome & Co., whose business has always been the envy of Germans. To prove the contention a detailed description is given of the beautiful tabloid-medicine chest which Burroughs Wellcome & Co. designed and supplied to the U.S. hospital ship *Maine* some years ago. The "Apotheker Zeitung" concludes: "That moreover the products of the English firm named unfortunately also have a very large distribution in Germany, to the harm of German products, is to be written to the debit account of numerous German medical men who have prescribed these products in preference, and, we are told, still prescribe them."

"SCIENCE AND INDUSTRY."—An illustrated supplement of the "Manchester Guardian," June 29, with this title, dealt with the organic-chemical industry in England, and especially as carried on by Levinstein, Ltd., Blackley, Manchester. The supplement contained articles by Professors H. E. Armstrong, A. G. Green, W. H. Perkin, and W. J. Pope, and by Doctors Alfred Rée, G. T. Morgan, C. W. Saleeby, and Herbert Levinstein. In connection with the acquisition of the Ellesmere Port works, it is stated that the German manager, in the characteristic Hun fashion, destroyed the scientific and other records before he left, in an endeavour to hamper the British purchasers. The difficulties, however, were overcome, and in November 1916 the Union Jack was hoisted at Ellesmere Port and the plant set in operation, since when a considerable amount of synthetic indigo has been placed on the market.

Trade-marks Applied for.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1917, p. 220.

(From "The Trade-marks Journal," June 20, 1917.)

"WESDENIN"; for an antiseptic spraying solution (2). By The Western Dental Manufacturing Co. (1914), Ltd., 75 Queen's Road, Bristol. 376,415. (Associated.)

"PETERLINEUM"; for antiseptic fluids (2). By C. A. Peters, Ltd., Market Place, Derby. 376,734.

"KARSWOOD PIG POWDERS," with device of pig's head and four running pigs, in red, pink, black, and white (device of pig disclaimed); for pig-powders (2). By E. Griffiths Hughes (Karswood), Ltd., 68 Deansgate Arcade, Manchester. 377,371. (Associated.)

"NAPTHULES"; for chemicals (2). By The "Sanitas" Co., Ltd., Locksley Street, Limehouse, E. 14. 377,892.

"KENSOL"; for disinfectants (2). By F. Kendall & Son, Ltd., Birmingham Road, Stratford-on-Avon. 378,174.

Device of hanging sign-board bearing words "THE RUSSELL PREPARED GREEN BONE" ("Russell" disclaimed); for a medicated lime-preparation for treating wasting diseases (3). By Standard Emulsion Co., 141 Green Street, New York. 377,013. (Associated.)

"ETICO"; for scientific instruments, etc. (8). By S. Wiseman, 61 Great Eastern Street, E.C. 2. 377,249.

"RENSIN"; for food-substances (42). By Armour & Co., Ltd., Kingsway, W.C. 2. 378,130.

"FIELD GLASS," with picture of same; for goods (47), and for perfumery, etc. (48). By C. Thomas & Bros. Ltd., Bristol. 378,024/5.

Device of eccentric head, with words "SIMBA ATKINSON LONDON" ("Atkinson" disclaimed); for perfumery, etc. (48). By J. & E. Atkinson, Ltd., 24 Old Bond Street, W. 1. 377,407. (Associated.)

"EXULTA" and "HONORA"; for perfumery, etc. (48). By Price's Patent Candle Co., Ltd., 31 Threadneedle Street, E.C. 2. 377,966/7.

Label devices, with picture of girl's head, and including words "DR. I. W. LYON'S PERFECT DENTAL CREAM" and "DR. I. W. LYON'S PERFECT TOOTH POWDER"; for tooth cream and powder (48). By I. W. Lyon & Sons, Inc., 520 West 27th Street, New York. 378,140/1. (Associated.)

"CANNITE" and "STERNITE"; for solid fuel, mainly alcohol (50). By S. Gross, 150 York Road, S.E. 1. 377,670/1.

Oval label device, including word "AUTOCEL"; for goods (50). By S. Pyne & Sons, 148-149 Fore Street, Exeter. 377,303.

"SUPREMA" and "SWIFT" over circular device of sword and scales; for hair-combs (50). By The North British Rubber Co., Ltd., Fountainbridge, Edinburgh. 377,889/891. (Associated.)

"LUC"; for feeding-bottles (50). By Laboratory Utilities Co., Ltd., 17 Sackville Street, Piccadilly, W. 1. 378,031.

Observations and Reflections.

By Xrayser II.

The Muddle of Mesopotamia,

of which you give much the fullest and best account that I have yet seen, recalls the still more disastrous breakdown of medical supply in the Crimean war, and appears to be, in one respect, more blameworthy even than that. In the Crimean case the sickness and sufferings of the men were mainly due to the unusual rigour of the winter, which could not be foreseen; the shortage of medical as of other stores was largely caused by losses at sea, again due to the terrific weather; and many stores that were duly sent either went astray in transit, or were left rotting at Varna, while men were dying for want of them at Scutari. It was, in short, local inefficiency, not want of foresight at home, that, added to quite abnormal conditions, was chiefly responsible for the breakdown. In Mesopotamia, on the contrary, it was the supply that was lacking, and that from the very first. The moral seems to be that a good business man used to supplying drugs, etc., on a large scale—say, a practical pharmacist with experience as buyer to a wholesale house—would have been of incalculable value, and ought always to be employed in such cases. It can hardly be supposed that there was such a man on this job.

Mr. Gilmour's Statement

at the annual meeting of the North British Branch of the Pharmaceutical Society consisted mainly of a *résumé* of the Executive's report—with comments—and, being couched in appropriately general terms, presents few points for particular criticism. Its key-note was the harmony existing between the Executive and the Pharmaceutical Standing Committee, and the smooth working of the whole pharmaceutical machine which, with one exception, prevails throughout the sister kingdom. There has been no contest there this year, the old Executive having been re-elected with the consent of more than 99 per cent. of the members, and this fact appears to be regarded in some quarters as a tacit rebuke to our own more bellicose attitude to the Council of the parent Society. But there is this difference between us and our Scottish brethren: two years ago we followed our leaders blindly, and are suffering in consequence; they refused to be led, and secured for themselves a much better position than ours. Possibly if we had been equally courageous, our relations with our "Executive" might be more harmonious than they are. A bold stand in that crisis would probably have won for us more respect and more consideration than has been shown us since.

"North British Branch"

strikes me, by the way, as a phrase needing explanation. I have always understood, and have frequently found it the case, that Scots object to their country being called North Britain, as if it were a mere appendix or addition to the southern country. Some of my friends there go so far as to refuse to answer letters addressed "N.B." How is it that Scottish pharmacists do not insist on their Branch being officially described as "Scottish"? I should be sorry to disturb the amicable relations existing among them, but as a purely academic point this little inconsistency interests me.

"Cortex"

virtually admits all I contended for in my note on the disallowance of proprietaries—namely, that the onus of deciding which may be used and which not should not be thrown on us. What he says further has no relevance as an answer to what I said of the use of "secret" remedies, and his remarks on my reply to "Research" exaggerate my point beyond recognition. The labourer is worthy of his hire, and I have said nothing that gives any colour to the charge of wishing to see him deprived of it. I will not a second time repeat what I said of new claimants to a place in our materia medica; it will be found at Index Folio 551, and I adhere to every word of it. Will my critics say in as few words whether they agree with it or not? It raises a perfectly plain issue, which as yet has not been met, but only obscured by exaggeration and irrelevancy.

Salesmanship

is, like most personal qualities, a natural gift, but it is one that may be, and indeed requires to be, cultivated and developed. Mr. Wolff is quite right in regarding politeness as essential to success as a salesman, but politeness—or, as I should prefer to say, courtesy, for politeness is often only a surface polish, whereas courtesy goes deeper—is not enough. The manners of a Bayard would not enable some people to sell three tooth-brushes instead of one. Tact itself, which usually goes with courtesy and even goes a little beyond it sometimes, is not sufficient without insight into character, thorough knowledge of one's business, and sound judgment. We sometimes hear salesmanship spoken of contemptuously, as a mere tradesman's virtue, quite beneath the dignity of a professional pharmacist, but, as a matter of fact, it demands a combination of moral and intellectual qualities which entitles the possessor to respect. Of course, there are salesmen and salesmen, but salesmanship regarded in the abstract is entirely admirable.

Bay-leaves and Bay-berries

have from time immemorial been credited with abortefacient properties, and though Culpeper speaks more strongly on this point than some of our herbalists, he is not alone in his opinion. Gerard, for instance, says of the laurel, "It helpeth the dropsie and jaundice, and procureth unto women their desired sicknesse." Lemery notes its use *pour exciter les mois aux femmes*. This reputation it kept down to quite recent times, if indeed it has yet lost it, which I doubt, for it enters into a good many cleansing drinks for cows. In 1809 confect. rutæ was introduced into the London Pharmacopœia, with bay-berries as one of its ingredients, and retained its place in 1851, when Lane said of it, "Carminative, antispasmodic, reputed emmenagogue." It was used, however, only in clysters. According to Dr. Brookes (1773), two scruples to a drachm of the berries were given in infusion to excite the menses and expel the afterbirth.

Information Department.

INFORMATION WANTED.

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

69/28. Sphagnum moss (in sheets): supply.
70/46. "Danic" vibrator.
70/46. Baird's medicated under-socks.
70/27. "Grip-all" fly-catchers.
70/46. "D.P." arm-sling: makers.
73/17. "Charters Oak" toilet tissue.

INFORMATION SUPPLIED.

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send a stamped, addressed envelope to the Information Department, THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C. 4:

"Albion Milk and Sulphur Soap," 68/8
Anti-vermin body-belts, 51/26
Asbestos filters, 72/19
"Barriagar," 70/45
"Blinblow," 12/49
Coutt's acetic acid, 30/23
"Cow & Gate" brand dried milk, 11/55
"Cowline," 46/50
Crême florcine (Girard), 41/25
Deeker's sulphur seurf-pomade, 68/26
"Digalen," 11/57
Dinneford's fluid magnesia, 27/39
Ext. of spruce, 55/71
Fish oils, 60/27
"Germinol," 63/12
Lee's drops for inhalation, 66/45
"Metamorphosa" cream, 69/10
Mixers and sifters, 49/17
"New Matik" hair-brushes, 28/45
Nicotine, 46/72
Pill-boxes, turned-wood (for China), 24/37
Pil. guipsine, 54/10
"Pneumosan," 9/22
Pond's vanishing cream, 49/4
Pumice-stone, 69/29
"Radiolysis," 25/6
Ralston's new process still, 58/74
"Renipas," 62/28
Respirators, 60/72
Sal ammoniac, 65/43
"Salvotol," 63/11
"Sclavo" serum, 47/74
"Seneschal" corn-plane, 52/22
Sesame oil, 6/11

"SANITAS"
DISINFECTANTS
(Fluid, Powder and Soap)
Also
"Sanitas Fluid" No. 2 (Crude).
Non-poisonous, disinfectant and deodorant.
"Sanitas-Bactox."
Homogeneous Phenoloid Disinfectant; 18/20 co-efficient.
"Sanitas-Okol."
Emulsified Phenoloid Disinfectant; 18/20 co-efficient.
"Sanitas Sypol" (Improved Lysol).
"Sanitas Sulphur Candles."
"Sanitas Formic Sulphugators."
"Sanitas Formitas Outfits."
"Sanitas Formigators."
"Sanitas Drain Testers."
"Sanitas Polishes."
"Sanitas Distemper," for walls.
Peroxide of Hydrogen (Kingzett's Preserved).
Kingzett's Patents.
The "SANITAS" CO., Ltd.,
Locksley Street, Limehouse, London, E.

BRITISH
ABSOLUTE ALCOHOL
Jas. Burrough Ltd. D.1. Cale Distillery, Hutton Rd., LAMBETH, S.E.

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Editorial Articles.

The Chemist's Title.

III.—Apothecary.

It has been suggested in our correspondence columns that the title of apothecary, now virtually discarded by members of the Apothecaries' Society, might be transferred to us who have so largely succeeded to their place as preparers and dispensers of medicine. To this suggestion and the arrangement by which it has been thought that it might be realised with the consent of the aforesaid Society we may return; all we propose at present is to recall such facts in the history of the title as may enable our readers to judge whether it is worth coveting or not. To do this we must traverse ground familiar to many. Apothecary is from the Greek *apothekē*, a storehouse; it meets us in the twelfth or thirteenth century in the Latin form *apotheca*, as a name for a drug-shop, the keeper of which was styled *apothecarius*. At first the *apotheca* was apparently a storehouse for wine (compare the Spanish *bodega*), afterwards for oil, grain, or almost anything; when it began to be especially applied to a drug-store is uncertain, but in the Pandects of Justinian (A.D. 530) *apothecarius* means a warehouseman. Readers of Wootton's "Chronicles of Pharmacy" will remember that in a French charter of 1178 *apothecarii* is used to indicate retail shopkeepers, just as *boutiquiers* is used in modern French, and Dr. J. C. McWalter, in our Winter Number for this year, gave an account of the Dublin apothecaries in which it is stated that the first of these came over with the English King Henry II., who visited Ireland in 1178. This man dealt in drugs, no doubt among other things. Wootton says that the earliest authentic instance of an apothecary in England occurs in 1345, but according to Bardsley ("English Surnames") John le Espicer aut Apotecarius was Mayor of York in 1173. The two trades of spicer and apothecary were, says Bardsley, distinct in character at the time, though they had much in common, the apothecary specialising in drugs in a way the spicer did not; but, be this as it may, the apothecaries, as is well known, belonged to the same Company as the grocers (originally called Pepperers, pepper being the most important spice) until they obtained a separate charter in 1617. They had doubtless by that time shed most of their grocery trade, and had established their position as dispensers of medicine and assistants to the physicians. They occupied indeed much the same position as we did when we obtained our Charter, except that, for good and evil both, they were more closely attached to the physicians, who seem to have delivered their "bills" (prescriptions) to them directly, and had the right to inspect their shops. Fuller, writing in 1642, says of "The Good Physician," "Lest his apothecary should oversee, he oversees his apothecary"; and Earle, in 1628, writing of the "Meere dull Physitian," speaks of "his drugger," and "his Apothecarie's Shoppe," as if the connection between him and them were very close indeed. The history of the Apothecaries since the date of their charter is too well known to need recapitulation in detail. Gradually they won their way to general recognition as medical practitioners, being greatly helped to do this by their having remained at their posts when the doctors, or many of them, fled from theirs during the Great Plague of London. In 1815 they obtained an Act empowering them not only to practise, but to prevent others from doing so, as apothecaries. By this Act, which was confirmed and amended in 1874, and again in 1907, it was also decreed that no person who had not served an apprenticeship of five years, or was not already employed as assistant to an apothecary, should be allowed to act as an assistant without first undergoing examination by a Court of Examiners appointed under the Act, as is still the case. If we may judge from Dr. Meade's "Manual for Apothecaries' Hall" (1839), this examination was at first a very easy one, but now some knowledge of chemistry is required, and, as we know, there is a strong demand being made upon us for the admission of these assistants to the ranks of the Pharmaceutical Society. That they may be regarded as competent to act as assistants to pharmacists we grant, and if and when we set up an examination for assistants they might reasonably be admitted to the same rank as a step to the higher qualification of pharmacist. Whether we shall ever care to claim the title of apothecary is another question; it is certain that we are the true successors of the old apothecaries, and if our title of chemist is begrudged us we might conceivably accept the other in its place, if the present so-called apothecaries would transfer to us their dispensing along with their assistants.

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Dichloramine-T.

Chloramine-T (sodium toluene - *p* - sulphochloramide), which was introduced last year as an antiseptic (*C. & D.*, February 19, 1916, p. 46), is soluble in water but practically insoluble in oils. For nasal disinfection an oily solution is required, and a research (the result of which is given in the "British Medical Journal," I., 1917, p. 865) was accordingly made by Dr. E. K. Dunham and Dr. H. D. Dakin, F.R.S., for a compound which would meet the requirements. They have found this in the corresponding dichloramine (toluene-*p*-sulphodichloramine), to which the abbreviated name dichloramine-T has been applied. This substance is only sparingly soluble in paraffin oil, but is readily dissolved in eucalyptol, and the solution can be subsequently diluted with paraffin. In this way a reasonably bland oil solution containing 2 per cent. of the dichloramine can be obtained. This is used in an atomiser designed for paraffin oil, and from ten to twenty vigorous compressions of the bulb used for each nostril. The nose is first cleansed with salt solution or with 0.25-per-cent. aqueous chloramine-T solution. We place on record the two methods of making dichloramine-T as devised by Chattaway in 1905, also the preparation of the solutions needed in medical practice.

1. Bleaching-powder (350 to 400 grams) of good quality is shaken with 2 litres of water on a shaker for an hour, and then the mixture allowed to settle. The supernatant fluid is syphoned off and the remainder filtered. Powdered toluene-para-sulphonamide (this need not be pure) 75 grams is then added to the whole of the hypochlorite solution and shaken till dissolved. The solution is filtered if necessary, placed in a large separating-funnel, and acidified with acetic acid (100 c.c.) added in portions. About 100 c.c. of chloroform is then added to extract the dichloramine, and the whole well shaken. The chloroform layer is tapped off, dried over calcium chloride, filtered, and allowed to evaporate in the air. The residue is powdered and dried *in vacuo*.

2. Toluene-para-sulphonamide (50 grams), water (500 c.c.), crystallised sodium acetate (100 grams), and chloroform (100 c.c.) are placed in a flask, which is immersed in cold water, and the contents treated with chlorine gas to saturation. If necessary, more chloroform is added to dissolve the dichloramine completely. The chloroform is separated in a funnel, washed with a little water, dried over calcium chloride, filtered, and allowed to evaporate. The crystalline residue of pure toluene-para-sulphondichloramine is powdered and dried *in vacuo*. The yield is practically the theoretical.

Chlorinated Eucalyptol.

Five hundred c.c. of eucalyptol is treated with 15 grams of potassium chlorate and 50 c.c. concentrated hydrochloric acid for twelve hours or longer; it is then well washed with water and with sodium-carbonate solution. After this the water is tapped off and 15 grams of dry sodium carbonate is added to the oil and the whole allowed to stand for twenty-four hours. It is then filtered, dried with a little solid calcium chloride, and is then ready for use.

Chlorinated Paraffin Oil.

To 500 c.c. of commercial liquid paraffin oil 15 grams of potassium chlorate and 50 c.c. of concentrated hydrochloric acid are added and the mixture exposed to light, preferably sunlight, for several hours. It is then transferred to a separating-funnel and washed successively with water, a solution of sodium carbonate, and again with water. The opalescent oil is then tapped off, solid calcium chloride added in small quantity, and about 5 grams of animal charcoal. On subsequently filtering through paper a clear, slightly yellowish oil is obtained, which is ready for use.

Preparation of the Oil Solution of Dichloramine-T.

Dissolve 0.2 gram of the dichloramine-T in 2 c.c. of the chlorinated eucalyptol without heating. When solution is complete, add 8 c.c. of the chlorinated paraffin oil. Mix well, and the solution is ready for use. This solution contains 2 per cent. of the dichloramine-T. It is relatively unstable (keeps three or four days), and should be discarded as inefficient as soon as a distinct precipitate makes its appearance (toluene-para-sulphonamide).

An alternative method, when considerable quantities are required, is to prepare a stock solution, 10 per cent. of the dichloramine-T in chlorinated eucalyptol, and to dilute this with chlorinated paraffin oil, 1 : 4, as needed for immediate use. The eucalyptol solution should be kept in a cool, dark place, and under these conditions will suffer little deterioration within a month.

Deliveries of Spirits.

By a recently issued General Order (No. 40/1917), the Customs and Excise Authorities have codified their new method of procedure in regard to their regulations for obtaining plain spirit by manufacturing chemists and others. To prevent misunderstanding, we ought to state that the Order does not take into account the Order of the Ministry of Munitions limiting the issue of grain spirit to such purposes as the manufacture of medicinal preparations or the release of a certain amount of foreign spirits for use in perfumery. It is stated in the General Order that in future an "authority" from the Advisory Committee is not to be required for the delivery of immature spirits direct from the ship's side, warehouse, or distillery—

(*a*) to a manufacturing chemist or to a manufacturer of perfumes for use in their manufactures; or
(*b*) for scientific purposes; or
(*c*) for the purpose of making medicines, to registered medical practitioners, to hospitals and to persons, firms, and bodies corporate entitled to carry on the business of a chemist and druggist;

provided an immature-spirits requisition bearing on the face of it permission for their delivery, granted by the surveyor in whose district the spirits are to be used, is produced to the proper officer at the ship's side, warehouse, or distillery. To obtain this permission application should be made in writing to the surveyor for sanction to clear spirits for an authorised purpose, which must be clearly stated; and the surveyor, if satisfied, may, without application to the Board, issue to applicant a book of immature-spirits requisitions, endorsed with a reference to this Order, and stamped with the office date-stamp, etc. If an "authority" has already been granted to applicant, it is to be taken up and returned to the Advisory Committee by the surveyor, who will advise the Committee that the spirits are in future to be drawn under the terms of this Order. If the applicant has a book of requisitions in his possession, the surveyor's authorisation may be written on the unused requisitions. The same procedure may be followed in the case of persons authorised to receive immature spirits for the purposes of fortifying wine, extraction of flavouring-essences, preparation of hair-washes, face-lotions, and similar articles, or of perfumes by hairdressers, etc. These directions do not supersede any of the standing instructions governing the delivery of immature spirits. A person entitled to receive spirits under the foregoing conditions who has obtained an "authority" from the Advisory Committee may, at his option, continue to draw his supplies as at present.

In regard to imported spirits, the following imported goods may be delivered without an "authority" if the surveyor is satisfied as to their character, but in any case of doubt he should report the facts to the Board:

(*a*) medicines and solid goods containing spirits;
(*b*) surgical dressings and ligatures preserved in spirit;
(*c*) hair-wash and similar toilet-preparations and dentifrices containing spirit;
(*d*) unpotable mixtures containing spirit—*e.g.*, varnish, dyes, liquid glue, etc.; and
(*e*) imported perfumed spirits.

Under the heading "General" a few other details are given regarding the delivery of spirits, and it is added that a special notice for delivery to manufacturing chemists and manufacturers of perfumes has been prepared and will be sent out by surveyors to such traders in their districts.

The Future of the Insurance Acts.

The question regarding the drug-supply which members of the British Medical Association are asked to answer (see *C. & D.*, June 30, p. 44) is as follows:

After further experience, do you object to the cost of drugs, etc., being made a first charge on the Medical Benefit Fund under the conditions named? Would you so object if the capitation fee for practitioners and drugs were increased to 12*s.* as suggested?

Sale of Patent Medicines.

THE CHANCELLOR OF THE EXCHEQUER, in the House of Commons, stated that the following has been the revenue from patent-medicine stamps:

1914–15	1915–16	1916–17
£333,777	£627,454	£732,943

The yield of these duties in 1914-15 was the last completed financial year before the increase of the duties; on October 20, 1915, the duties were doubled; but the amount shown for 1916-17 is a complete year of increased duties. A year ago, commenting on the 1914-15 figures, we predicted that the next year would show a revenue of about half a million from stamps, and "in subsequent years the revenue will increase." The last-named prophecy is correct enough, and the figures are eloquent testimony of the public fancy for packed medicines. It is known that one of the purposes of increasing the duty on patent medicines was to check the consumption, Ministers having been influenced in this view by the report of the Select Committee on Patent Medicines. The inference to be drawn from the above figures is that the medical view of this matter, which found expression in that Committee's Report, is not only biassed but incorrect.

The Cocaine Regulation.

ANOTHER alteration has been made in Regulation 40 B of the Defence of the Realm Regulations, dealing with the sale of cocaine by prescription. The alterations (1) remove from doctors the obligation to mark Insurance prescriptions in the same way as prescriptions issued to private patients, and (2) place on chemists the unpleasant duty of retaining a customer's prescription in cases where cocaine has been ordered—a new principle in English law. The following reprint of Sub-section 1 (only) is intended to make the alterations clear. The words in italics are new and those enclosed in square brackets have been deleted. The altered Regulation came into force on June 28:

(1) If any person sells, gives, procures, or supplies, or offers to sell, give, procure, or supply, cocaine to or for any person, other than an authorised person, in the United Kingdom, he shall be guilty of a summary offence against these Regulations unless he proves that the following conditions have been complied with:

(*a*) The cocaine must be supplied on and in accordance with a written prescription of a duly qualified medical practitioner and dispensed by a person legally authorised to dispense such prescription:

(*b*) The prescription must be dated and signed by the medical practitioner with his full name and address and qualifications, and marked with the words "Not to be repeated," and must specify the total amount of cocaine on the prescription, except that, where the medicine to be supplied on the prescription is a proprietary medicine, it shall be sufficient to state the amount of the medicine to be supplied: *and that in the case of prescriptions issued for National Health Insurance purposes on the form provided by the Insurance Committee the medical practitioner's address and qualifications and the words "Not to be repeated" need not be marked on the prescription.*

(*c*) Cocaine shall not be supplied more than once on the same prescription [except in pursuance of fresh directions duly endorsed on the prescription by the medical practitioner by whom it was originally issued, and signed with his name in full and dated:]

(*d*) [The name of the person, firm, or body corporate dispensing the prescription, the address of the premises at which and the date on which it is dispensed, must be marked on the prescription:]

The prescription shall be marked with the date on which it is dispensed, and shall (unless issued for National Health Insurance purposes on the form provided by the Insurance Committee) be retained by the person, firm, or body corporate by whom the prescription is dispensed, and shall be kept on the premises where it is dispensed, and shall be open to inspection by any person authorised for the purpose by a Secretary of State.

(*e*) The ingredients of the prescriptions so dispensed, with the name and address of the person to whom it is sold or delivered, shall be entered in a book specially set apart for this sole purpose and kept on the premises where the prescription is dispensed, which book shall be open to inspection by any person authorised for the purpose by a Secretary of State.

No alteration has been made in the remaining ten sub-sections.

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Reports from Local Centres.

ENGLAND.

Blackpool.—At the annual meeting of the Insurance Committee on July 2, it was announced that payments to chemists for the past quarter amounted to 279*l.* 6*s.* 8*d.* During the year 3,899 prescriptions had been dispensed for temporary residents, at a cost of 104*l.* 5*s.* 11*d.* A conference of the Panel Committee and representatives of the Pricing Bureau and the Insurance Committee had considered the proposed new prescription-form, and thought it undesirable to alter the existing form, but that chemists be asked to submit Form B of their scripts to the Pricing Bureau instead of Form A. The matter was referred to the Pharmaceutical Committee.

Brighton.—The Insurance Committee met on June 28, when the Medical Benefit Sub-Committee's statement for 1916 showed the number of prescriptions for the year as 108,115; amount due to chemists, 2,980*l.* 13*s.* 5*d.* (less 41*l.* 18*s.* 2*d.*, expenses of the Pharmaceutical Committee); paid during the year, 2,724*l.* 6*s.*; balance due, 214*l.* 9*s.* 3*d.* Councillor Yates referred to the recruiting of chemists, and said that the Sub-Committee appointed to deal with this matter was satisfied that the number of dispensers had been reduced to the minimum necessary for the service of the civil population of the town.

London.—At the meeting of the Insurance Committee on June 28, payment of chemists' accounts was ordered for 1915, 47*l.* 11*s.* 2*d.*; for 1916, 2,671*l.* 18*s.* 7*d.*; for 1917, 8,134*l.* 3*s.* 9*d.* On the recommendation of the Medical Benefit Sub-Committee, it was decided to issue a notice, in view of the number of panel practitioners now on war service, asking insured persons not to make unnecessary demands on the services of doctors, and also requesting them to present prescriptions to chemists without avoidable delay.

Portsmouth.—The Insurance Committee met on June 28, when it was reported that the Commissioners had credited the Committee with 160*l.* towards the cost of prescription-pricing for 1916 and 1917. Mr. Hollis (Chairman of the Finance Committee) said the grant would cover the excess cost to which they had been put in regard to the work. Chemists, doctors, and the Committee were all satisfied. The Finance Committee reported the sum available for temporary residents' prescriptions was 50*l.* 8*s.*, but as the accounts only amounted to 32*l.*, the balance would benefit the doctors. The number of scripts priced for April was 8,858, compared with 11,246 in March, and the amount allowed was 227*l.* 9*s.* 6*d.* (an average of 6.16*d.* per script), against 295*l.* 1*s.* 5*d.* (average 6.20*d.*) for the preceding month. Balancing payments were ordered, and the Pharmaceutical Committee was granted 20*l.* for administration expenses. At the suggestion of the Pharmaceutical Committee it was decided that, unless otherwise ordered, methylated-spirit preparations shall be supplied where customary; doctors, chemists, the Panel and Pharmaceutical Committees, and the South-Eastern Joint Prescription-pricing Committee are to be so informed.

Sheffield.—At a meeting of the Insurance Committee on July 4, it was mentioned that the Panel Committee is to be asked to draw the attention of doctors to the necessity of strictly complying with the Cocaine Regulations. A credit of 200*l.* has been received from the Commissioners towards the cost of the Pricing Bureau for 1916, and a like sum for 1917. For the former year the grant is insufficient by 42*l.*, but that for 1917 is 22*l.* in excess of requirements. A Sub-Committee reported in favour of the proposed Ministry of Health. Payment to chemists was ordered of 20*l.* 4*s.* 10*d.* for appliances prior to altered arrangements, and 810*l.* 14*s.* 1*d.* balance of accounts for April and payment on account for May. Some little delay is anticipated in sending out this month's cheques on account of shortage of staff.

Southport.—The Insurance Committee met on June 26, when Parliament's provision for emergency grants to Insurance Committees on account of war conditions was announced, but the Clerk's report on the Administration Account obviated the need of any application for such relief. The Commissioners wrote in regard to relieving the strain on medical practitioners remaining in civil work, and it was decided to send out with each new medical card a leaflet embodying the Commissioners' recommendations and to issue a general appeal to insured persons and the public

Pharmaceutical Society of Great Britain.

Council-meeting.

THE usual monthly meeting of the Council was held at 16 Bloomsbury Square, London, W.C., on July 4, with the President (Mr. E. White) in the chair. The other Councillors present were Mr. E. T. Neathercoat (Vice-President), Mr. W. H. Gibson (Treasurer), and Messrs. F. E. Bilson, A. S. Campkin, J. H. Cuff, W. L. Currie, J. W. Deakin, F. J. Gibson, R. L. Gifford, T. Guthrie, A. Hagon, F. G. Hines, A. H. Jenkin, J. Keall, L. M. Parry, P. F. Rowsell, F. P. Sargeant, H. Skinner, and J. R. Young.

The Secretary having read the minutes, the PRESIDENT intimated an apology for absence from Mr. J. F. Harrington, who was detained by a business engagement. There were no questions.

ELECTIONS AND RESTORATONS.

Twenty-two members were elected and two student associates, while fifty-nine persons were restored to the Register of Chemists and Druggists.

CORRESPONDENCE.

A letter had been received from the "Chemical Section and the Pharmaceutical Commission of the Petrograd Committee of Technical Help for Industry," inviting information respecting chemical and pharmaceutical questions which have arisen during the war. The Secretary reported that the letter was so worded that they thought that before any action was taken they should have the advice of the Foreign Office. The Foreign Office handed the matter over to the Board of Trade, who wrote to the Pharmaceutical Society on June 11 a very guarded letter to the effect that if, as they presumed, the Petrograd Committee of Technical Help is a recognised body, there would be no reason against their being supplied with any information "which has already been published in this country."

The PRESIDENT said that on the face of this official communication they could not proceed any further in the matter, and a reply had been sent saying that they had no special knowledge to give the Committee.

PHARMACISTS IN THE ARMY.

From the Society's North British Branch a report was forwarded of the meeting of the Executive held on June 20 and the result of the election of the Executive for the ensuing year. In the same connection the Secretary in Scotland, Mr. J. Rutherford Hill, forwarded a letter from a member of the Society in Scotland, dealing with the position of pharmacists in the R.A.M.C. This letter contained a good deal of inside knowledge regarding dispensing in the Army, and particulars were supplied of specific cases in which dispensing was done in large military hospitals by unqualified and totally inexperienced dispensers. This member pointed out that the Canadian pharmacists held commissioned rank in the Army, and he urged the Society to press upon the authorities the necessity for recognising pharmacists by giving them rank as second-lieutenants in the R.A.M.C.

A letter on the same subject was read from the Peterborough and District Association, deploring "the apparent inertia of the Pharmaceutical Society regarding the status of pharmacists in the Army."

Mr. CAMPKIN said in this connection that if the steps taken by the Council to bring this question regularly before the War Office authorities were properly known there would be fewer accusations of inertia.

Mr. HINES remarked that these letters justified his bringing the matter before the Committee on the previous evening, in spite of the fact that his propositions were rather abruptly turned down. He thought it was his duty as a new member to press forward subjects of this kind and endeavour as far as possible to find new channels through which to keep the question before the authorities.

The PRESIDENT said that the subject might have been new to Mr. Hines, but it certainly was not new to the Council, and no new channels had as yet been pointed out to them.

Mr. HINES said that he proposed a definite Committee of Inquiry and also a definite Army course for pharmacists, and these, he took it, were quite new propositions.

Mr. YOUNG said a case came within his own experience the other day where a man had qualified for a commission, and, forsaking pharmacy entirely, wanted to go into the fighting corps as a second-lieutenant. He was turned down by the authorities because, as they pointed out to him, he was more use in the R.A.M.C. than he would be as a second-lieutenant.

Mr. GUTHRIE said the suggestion in Mr. Hill's letter that it should be impressed upon the War Office authorities that, apart altogether from the benefit to the pharmacists, it would be a distinct benefit to the Army and to the public generally if pharmacists were given the recognition they deserved was worth special consideration.

Mr. JENKIN, as a member for the past two years of the Pharmacists' Volunteer Corps, said that body had been working on lines parallel to the Council and endeavouring to bring influence to bear on the War Office authorities to recognise pharmacists as worthy of commissioned rank. The only chance of securing recognition for pharmacists would be in connection with base hospitals.

Mr. ROWSELL said he thought it should be known that the President had interviewed Sir Alfred Keogh on the matter, and it was quite apparent that no change in procedure could be made in the midst of this big war.

Mr. DEAKIN said the point is that up to the present everything possible has been done by the Council, but nothing definite could be accomplished until after the war. Pharmacists, however, would only be doing their duty by constantly insisting on the matter being kept to the fore, as it is quite evident that there is a good deal of dissatisfaction prevalent.

Mr. SKINNER said the trouble was that there was a good deal of inside information given, but that it was not common property. In order to qualify for the control of base hospitals a good deal more than the art of dispensing is necessary. Therefore, pharmacists with that end in view should adapt themselves to the needs of the Army.

Mr. PARRY was of opinion that the real trouble is that the direction of affairs in the R.A.M.C. is in the hands of the doctors, and so long as it is controlled by these "Almighty Heaven-born people" pharmacists would always be kept down. He did not see why pharmacists should turn their backs on their profession to become scavengers in the Army. In every other European Army pharmacists held commissioned rank, and one fault was that chemists did not make enough row in public.

A letter having been received from the Board of Scientific Societies inviting a contribution from the Society towards the expenses of the Board, it was decided, seeing that the Pharmaceutical Society was a constituent part of that Board, to subscribe ten guineas.

COPPER SULPHATE.

There was also a volume of correspondence (as the President termed it) regarding the supply of copper sulphate to chemists. Mr. Goode, who has taken the matter up so strenuously, gave full details of his activities and the decision of the Board of Agriculture to keep to the old price of 6½*d.* per lb. (see *C. & D.*, June 30, p. 51).

The PRESIDENT asked whether the Councillors could suggest any further action in this connection, and

Mr. ROWSELL said the whole matter arose through the Board of Agriculture making rules without properly understanding the position. He suggested that the Board of Agriculture be asked in future to consult the Pharmaceutical Society on any questions of this kind.

Mr. CAMPKIN thought chemists were justified in endeavouring to get an exemption for broken bulk. He deprecated putting off the question until after the war.

Mr. SARGEANT said that in normal times this question of the supply of copper sulphate would not affect chemists to any great extent, but it was a very serious matter just now. Most chemists are asked at present to supply in 1-lb. quantities for the use of allotment-holders and others, and it was manifestly impossible for them to sell at the Board of Agriculture's price under these conditions.

Mr. GUTHRIE said he had made inquiries among chemists in Scotland and found that comparatively little business was being done by chemists in copper sulphate. It was evidently done principally through ironmongers and seedsmen.

The matter assumed considerable interest, and the President sent for the Regulations, which he read very carefully to the Council, intimating that it was distinctly a question for chemists and was worthy of full discussion.

Mr. CAMPKIN said that tens of thousands of pounds of copper sulphate were supplied by chemists in 1-lb. quantities. He knew from his own experience, and from the experience of other chemists in counties such as Hertfordshire, Cambridgeshire, Bedfordshire, Huntingdonshire, Norfolk, Suffolk, Lincolnshire, Buckinghamshire, and Essex, that sulphate of copper is very largely sold in small quantities for wheat-dressing and other purposes.

The PRESIDENT reminded the Council that Sir Richard Winfrey is Parliamentary Secretary of the Board of Agriculture, and he suggested that Mr. Campkin, who knows

the subject thoroughly, should communicate with Sir Richard on the matter and see what could be done. To this the Council agreed.

FINANCE.

The Secretary then read the report of the Finance Committee, which is summarised as follows:

The receipts of the General Fund since the last meeting amounted to 938*l.* 13*s.* 1*d.*, made up thus: Penalties and costs, 19*l.* 1*s.* 8*d.*; "Pharmaceutical Journal" and publications, 41*l.* 5*s.* 5*d.*; dividend on War Stock, 76*l.* 1*s.*; subscriptions, 130*l.* 4*s.*; registration-fees, 35*l.* 14*s.*; restoration-fees, 2*l.* 2*s.*; examination-fees, 622*l.* 14*s.*. lecture-fees, 11*l.* 11*s.* After deducting the payments ordered at the last meeting a balance of 90*l.* 18*s.* is left. The sum of 1,054*l.* was recommended for payment. The balances on the Benevolent Fund were: Current account, 842*l.* 12*s.* 6*d.*; Donation account, 468*l.* 3*s.* 10*d.*; Orphan Fund, 106*l.* 3*s.* 3*d.*

In moving the adoption of the report, the TREASURER touched on the main points. Costs were lower during the month; subscriptions were less by 66*l.*, and examination-fees were 622*l.*, as against 1,063*l.* The balance was also smaller, but that was not a serious matter. Mr. J. D. Petrie, of Aberdeen, had left a legacy to be used for the benefit of the Gordon Technical College of Aberdeen, which was to be available after the death of his wife. The demise had now taken place, and the amount available is 383*l.* 7*s.* 5*d.* The legacy is hedged round by severe restrictions, but there is also a special legacy of 42*l.* 18*s.* 9*d.* for the Benevolent Fund.

The Treasurer then went on to indicate other donations to the Benevolent Fund, such as 5*l.* 5*s.* from Iron Jelloid Co., 5*l.* 5*s.* from the Western Pharmacists' Association, 3*l.* 2*s.* 6*d.* from the London Pharmaceutical Committee, etc., when he was pulled up, amid considerable laughter, by Mr. BILSON, who apparently thought the Treasurer was poaching on his preserves.

The report was adopted.

BENEVOLENT FUND.

Mr. BILSON moved the adoption of the report of this Committee, which recommended seven grants amounting to 119*l.* in all. He read a letter from Mr. Richard Bremridge, who reminded the Council before the May meeting that in the ordinary course of events the Decennial Festival in aid of the Benevolent Fund would have been held this year. Mr. Bremridge suggested that, although it was impracticable to have the usual dinner, the firms who usually gave donations should be approached, and he offered his services to endeavour to secure their continued support. The Committee authorised Mr. Bremridge to do this, with the result that Mr. Bremridge was able to report that the total amount received from the thirty-eight firms he approached was almost double what was contributed by the same firms ten years ago. In addition to these firms he had received other donations from firms and individuals who were, with one exception, not included in the 1907 list. The total amount is 839*l.* 13*s.*, and a list of the donors is appended herewith:

SPECIAL CONTRIBUTIONS.

	£	s.
Allen & Hanburys, Ltd.	52	10
Baiss Bros. & Co., Ltd.	10	10
Bell (John), Hills & Lucas, Ltd.	10	10
Blyton, Astley & Co. ...	5	5
"British and Colonial Druggist"	5	5
British Drug Houses, Ltd	52	10
Burgoyne, Burbidges & Co., Ltd.	26	5
"Chemist and Druggist," The	10	10
Cooper, A. J. Bullen ...	5	5
Cooper, H. Creemer ...	3	3
Cooper & Co.	10	10
Cooper, W., & Nephews	105	0
Davenport, J. T., Ltd. ...	21	0
Dinneford & Co., ...	10	10
Duncan, Flockhart & Co.	52	10
Evans Sons Lescher & Webb, Ltd.	26	5
Fletcher, Fletcher & Co., Ltd.	26	5
Hewlett, C. J., & Son, Ltd.	5	5
Howards & Sons, Ltd. ...	10	10
Howie, W. L.	10	10
Idris & Co., Ltd.	5	5
Ingram & Royle, Ltd. ...	5	5
Johnson, J. H. & S. (Liverpool)	5	5
Macfarlan & Co.	21	0
Martindale, W.	10	10
Mather, W., Ltd. ...	10	10
Maw, S., Son & Sons, Ltd.	105	0
May, Roberts & Co., Ltd.	15	15
Newbery & Sons, Ltd. ...	5	5
Parke, Davis & Co. ...	5	5
Reynolds & Branson ...	26	5
Sangers	15	15
Savory & Moore, Ltd. ...	15	15
Smith, T. & H., Ltd. ...	10	10
Southall Bros. & Barclay, Ltd.	26	5
Sumner, R., & Co., Ltd.	10	10
Thompsons, Quarrell & Jones	10	10
Warrick, F. W.	5	5
Whiffen, Thomas & Sons, Ltd.	10	10
Willows, Francis & Butler	5	5
Woolley, Sons & Co., Ltd.	26	5
Wright, Layman & Umney, Ltd.	26	5

On Mr. BILSON'S motion, seconded by the TREASURER, a special vote of thanks was passed to Mr. Bremridge in the name of the Council for his excellent services in this particular connection.

Another rather interesting matter arose in connection with the Benevolent Fund. It appears that one application was on behalf of a former Associate and Member who was in business in this country for thirty years, but had to give up owing to ill-health. He then went to Germany, of which his wife was a native, and their joint income was from investments in Germany. On the outbreak of war the German Government stopped them from receiving the interest due, and they are dependent on what the wife can earn by teaching. This application was turned down by the Committee, and the matter was raised by Mr. ROWSELL, who said his information was that the man was advised to go to Germany for the benefit of his health, and that the couple were in dire distress.

Mr. BILSON explained that the Committee had considered this matter very carefully and had come to the conclusion that it was not a case they could recommend. Other Councillors agreed with this view.

LIBRARY, MUSEUM, SCHOOL, AND HOUSE COMMITTEE.

The report of this Committee was next read. It included an item of 12*l.* 4*s.* 8*d.* for repairs and particulars of new purchases of weights, etc., for the School, and donations of crude-drug specimens to the Museum. Mr. E. R. Baines has been awarded the Ransom Research Fellowship, and Miss Annie Williamson (who has done creditable work for the School) has been given a free Major course. The Northumberland Pharmaceutical Committee had written suggesting that the Council extend the bacteriological lectures. The following are the awards in the School of Pharmacy examinations:

Botany.—Bronze Medal, Hope Constance Monica Winch; Certificates of Honour, Barradale Whiddon Melhuish and Constance Effie Pearson.

Chemistry.—Bronze Medal, Barradale Whiddon Melhuish; Certificates of Honour, Annie Williamson and Hope Constance Monica Winch (equal).

Practical Chemistry.—Bronzo Medal, Barradale Whiddon Melhuish; Certificates of Honour, Annie Williamson and Vora Newcombe.

Materia Medica.—Bronze Medal, Barradale Whiddon Melhuish; Certificates of Honour, Hope Constance Monica Winch and Constance Effie Pearson.

Pharmacy.—Martindale Memorial Medal (in silver), Barradale Whiddon Melhuish; Certificates of Honour, Edgar Holland Shields and Constance Effie Pearson.

C. J. Hewlett Memorial Exhibition.—Hope Constance Monica Winch.

The PRESIDENT, in moving the adoption of the report, explained that, owing to dearth of paper, the Dean would revise the School prospectus, and only 500 copies would be issued. With regard to the matter raised by the Northumberland Committee, the Council were at present experimenting in bacteriology lectures, and when these experiments were concluded he would report results. So far the Council are satisfied that they have done the right thing, as the attendance at the lectures keeps up at over 100. Incidentally, he remarked that Mr. Knapman, the Curator, was seriously ill, but he was pleased to mention that he had taken a turn for the better.

The report was adopted.

PARLIAMENTARY AND GENERAL PURPOSES.

The report of this Committee included a report from Mr. Rowsell on the annual meeting of the National Association for Combating Venereal Diseases. The last paragraph of Mr. Rowsell's statement is as follows:

"I desire to put on record my opinion that, in view of the strength and influence which the National Council for Combating Venereal Diseases is able to influence through the fact that they have associated with them some of the most influential people in the country and the strong backing given by medical men of all classes, it appears to me to have been nothing less than wonderful that Mr. Glyn-Jones has been able to accomplish the work in connection with the recent measure that has been passed into law."

Mr. HINES moved for a special investigation and report *re* the status of pharmacists in the R.A.M.C., the conditions regarding dispensing service in the Services, and the desirability of the Society organising an Army course. The PARLIAMENTARY SECRETARY referred to the action he had taken on the instruction of the Council, with a view to securing the reception of a deputation to the War Office in regard to the status of pharmacists employed at base and military hospitals. He was still pressing the matter on the Director of Army Medical Service, and he hoped to arrange for a deputation from the Council to attend and state their views frankly and fully. After a general discussion, the matter was left in the hands of the President and Mr. Glyn-Jones, to take such steps as were practicable to secure from the Army Medical Department a date for receiving a deputation from the Council.

This report was likewise adopted.

BELL SCHOLARS.

The report of the Committee on the award of the Jacob Bell and Manchester Scholarships showed that the Bell scholars this year are Miss Elsie Woodward and Mr. George Richardson Boyes. There were no entries for the Manchester Scholarship—a fact deplored by Mr. DEAKIN and by all the Lancashire members of Council in turn. It was suggested that the whole question of the scholarships should be reconsidered, and the PRESIDENT said several points would be referred to the House Committee

This ended the public business.

Examination Results.

WE have received from the Registrar of the Pharmaceutical Society of Great Britain the following list of persons who were granted certificates at the recent examinations held in London:

Major.

Campbell, Isabella | Charnock, Elsie May
Sparling, Ellen Emma

Minor.

Amon, Harry, Croydon
Beswick, H. E., Blackburn
Brown, C. S., Manchester
Brownbill, Kate E., Leeds
Caesar, G. Julius, Weymouth
Clackett, Richard, Margate
Corkill, Doris M., Ramsey, I.M.
Evans, David Ernest, Cardiff
Fox, Lucy, South Street
Hamilton, Reginald, Durban
Hughes, E. N., New Brighton
Hull, Mildred C., Clapham
Lee, James Robt., New Mills
Maltby, Jessie Hope, Bath
Matterson, Kathleen M., Hendon
Melhuish, B. W., London
New, Alice M., Birkenhead
Newcombe, Vera, Middlesbro
Owen, William, Velindre
Pearson, Constance E., Muswell Hill
Piper, H. R. D., Princes Town
Reade, Elsie May, Crediton
Riley, Gertrude W., Birmingham
Senior, Helen C., Eastbourne
Shields, Edgar H., Burslem
Wassell, W. A., Southampton
Williams, Rachel E., Newcastle
Williamson, Annie, Preston
Winch, Hope C. M., Northallerton
Winser, Marjorie M., Tooting

Association Affairs.

Chemists and Druggists' Society of Ireland.—The annual picnic took place on June 27, in ideal weather. The members met at the Midland station, Belfast, and proceeded by rail to Whitehead *en route* to Blackhead. Here, after an inspection of the locality, they assembled at the Sunshine Hotel, where an ample meal was provided. The President (Mr. W. J. Rankin), in a short address, congratulated the members on the success of the outing, alluding to the fact that the company included fourteen past Presidents of the Society, two past Secretaries, the Treasurer, and the Secretary, and that Mr. and Mrs. Cambridge (the former now happily convalescent) were also present. Mr. S. Gibson, J.P., proposed, and Mr. S. McDowell seconded, a vote of thanks to Messrs. W. E. Wilson and S. Niven (Hon. Secretary) for the work producing the success of the picnic, which was heartily accorded. Messrs. Wilson and Niven replied, and Mr. R. Cambridge thanked the members for their sympathy in his illness. The assembly was afterwards photographed by Mr. Hogg, and later on entrained for Belfast, which was reached before 10 P.M.

East Anglia.—The East Anglia Federation met at Bury St. Edmunds on June 28. Alderman A. S. Campkin presided, and in his opening remarks urged the necessity of organisation and appealed for support of the Federation. He instanced the effect of lack of organisation in opposing the Venereal Disease Bill, and warned the delegates of the coming Health Bill, which is the thin edge of the wedge towards State-controlled dispensaries, and will necessitate the rights of pharmacists being guarded. Parliamentary representation was discussed by Mr. Bodger (recommending the adoption of a pharmacist as a candidate) and Messrs. Evans, Mallet, and Wiggin. Mr. Hamson reported that the Peterborough Association had forwarded to the "Square" a resolution on the position of pharmacists in the Army, and it was unanimously decided "to urge the Pharmaceutical Society to take immediate action to improve the status and rank of pharmacists in the British Army, similar to that adopted in other European nations." It was also agreed to invite other local Associations to take a similar course of action. The next meeting of the Federation is to be held at Ipswich about October.

London (S.E.).—The South-East London Pharmacists' Association met at Maitland House, Greenwich, on June 26. Mr. A. J. Wing (President) in the chair. The report of the Treasurer (Mr. Ralph) stated that the working expenses had been reduced, but the increased levy to the London County Executive's expenses and the three months' trial of the London Retail Price-list had reduced the balance of income to 11*s.* 7*d.* The subscribing members number 109. The Secretary (Mr. Milner) reported a successful session, with improved attendances, and referred to the Inter-Association Bowling Competition. The President, in his valedictory address, referred to the benefits of compulsory early closing, and said that if pharmacy is to attract the most suitable men still shorter hours will be necessary. The Committee were then re-elected, except that Mr. Fothergill takes the place of Mr. Lockyer, resigned. Messrs. Wing and Milner were re-elected to the Pharmaceutical Committee, and Messrs. Sayers and Siddle to the London County Executive. Messrs. Wing, Happold, Sayers, and Milner were appointed delegates to the B.P.C. It was resolved to adopt the "British and Colonial Pharmacist's" Minimum Retail Price-list as a guide. The officers were thanked for their services during the past year.

"Script" Sports Club.—The final game of the Bowling Singles' Championship was played on June 28, on the ground of the Mansfield Bowling Club, London, the contestants being Mr. J. M. James (Western) and Mr. W. B. Dow (Northern). Rain somewhat interfered with the game, which was eventually won by Mr. Dow with a score of 21 against Mr. James's 6. Mr. Dow thus becomes the Champion Metropolitan Pharmacist Bowler, and wins the pair of bowls presented by the editor of the "Script."

Society of Chemical Industry.—A meeting of the London Section was held at Burlington House, Piccadilly, W., on July 2, Mr. Arthur R. Ling in the chair. The first paper was by Dr. P. E. Spielmann and Mr. G. Campbell Petrie, F.I.C., on *Some Observations on Crude (Coke-oven) Benzoles.* This dealt with methods of estimating the proportions of benzene, toluene, and xylene in the distillate, the various methods showing some correspondence. Another paper was by Mr. J. J. Fox-Barker, of the Government Laboratory, on the *Determination of Phenol in Cresylic Acids.* Mr. J. H. Coste's paper on *The Absorption of Atmospheric Gases by Water* was taken as read. The paper which filled up most of the evening was by Mr. Julian L. Baker, on *The Use of Brewers' Yeast in Bread-making.* This was an account of work undertaken for the Royal Commission on Wheat-supplies. In manufacturing alcohol yeast is a by-product, and this is used by bakers, who prefer distillers' yeast to brewers' yeast, because the former is quicker in action. If, however, distilling were checked so as to save grain (40,000 tons per month), no yeast would be available for bread-making. The problem was to find out why brewers' yeast is slower in action. A large number of tests were made, and the products valued by technical men. The theory was put forward that white flour acts as a toxin to brewers' yeast, but that distillers' yeast, being probably a different strain of *Saccharomyces cerevisiæ*, is unimpeded in its work. It was found that good results are obtainable with equal parts of the two yeasts. Brewers' yeast is practically a waste product, it being estimated that in 1913 about 124 tons of yeast per week was wasted. The quicker working of distillers' yeast enables a baker to use his plant to greater advantage. There was a good discussion, and various useful points were brought out. The opinion was expressed that brewers' yeast could be got to do its work quicker if the baker goes about it in the right way.

Swansea.—A special meeting of the Swansea and West Glamorgan Chemists' Association was held at the Cameron Hotel on June 28, when Mr. Leo Joseph, J.P. (Cardiff), delivered an address on *Matters of Interest to the Profession.* In this he first discussed the views of chemists regarding Insurance dispensing—what it was at the beginning, what it is at the present time, and what, it is hoped, it will be in the near future. Even the most pessimistic could not but feel cheerful, he considers, at the prospect of what had been looked upon as a millstone round our necks being converted into an ornament to the profession and one which it would be an honour to include in our work. He also touched on Parliamentary representation, urging that the advantages already experienced through one representative would be increased if there were two or three. "Unity and unanimity" was the keynote of the address, which was much appreciated. Mr. Hy. Richards (Brynhyfryd), Mr. Davies (Davies Bros., Clydach), and the Secretary were appointed delegates to the South Wales and Monmouthshire Federation, which it was decided to invite to meet at Swansea at an early date. No B.P.C. delegates were nominated owing to pressure of business among chemists through the war conditions. The meeting which had been arranged for July 12 is cancelled, and the next meeting is to be held on September 13.

Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. As a result of the War wholesale houses have had to contend with many fresh difficulties, some of which have involved greatly increased expenses. Shortage of labour with higher wages (equal to almost double pre-war rates) has a direct effect upon values of goods, as also have railway carriage, freights, cartage, and other charges. The foregoing and other incidental outlays prevent retail buyers purchasing at the market prices quoted here.

42 Cannon Street, E.C. 4, July 5, 5.30 p.m.

There is no material change in the conditions under which business in drugs and chemicals is carried on, and operations for the most part are confined to current requirements, the outlook in regard to the future course of prices generally being unsettled. Synthetic chemicals, however, are for the most part firm, the changes including a further advance in salicylic acid, sodium salicylate, and salol, with a continued good demand. Amidopyrin is rather dearer. Atropine has been marked up 5*s.* per oz., and some of the "outside" morphine salts like diacetyl hydrochlor. and ethyl hydrochlor. are 3*s.* per oz. dearer. Tartaric acid is easier. Crude drugs present few changes. Sumatra benzoin and rhubarb are firm; myrrh and calumba are still scarce. Sudan acacia is again higher. Among essential oils higher prices are asked for star anise and cassia to arrive. Lemon and bergamot oils are quiet; eucalyptus is rather firmer, and clove another 3*d.* higher.

Higher	Firmer	Easier	Lower
Anise oil (c.i.f.)	Amidopyrin	Capsicums	Cocoa-butter
Atropine	Chloral hydrate	Chillies (East Af.)	Shellac
Barbitone	Dill-seed	Pepper	Tannic acid
Cassia oil (c.i.f.)	Eucalyptus oil	Phenazone	
Clove oil	Turpentine	Tartaric acid	
Cloves			
Gum acacia (Sudan)			
Morphine diacetyl hyd. and ethyl hyd.			
Salicylic acid			
Salol			
Soda salicyl.			
Vanillin			

Cablegram.

New York, July 5.—Business in drugs is quiet. Menthol is lower at $3.10 per lb. Cartagena ipecacuanha has advanced to $2.30. Gentian is cheaper at 14½c. Hydrastis (golden seal) is dearer at $6.00, and acetanilide is also higher at 50c. per lb.

Acetate of Lime has further advanced in U.S.A. to 5½c. per lb., but it does not follow that the prices of acetate-products will be affected, as they have already been, and still are, on a higher parity.

Aconite.—Japanese is offered at 58*s.* per cwt. on the spot. No English appears to be available.

Alcohol for perfumery and other non-medicinal preparations is offered at 45*s.* per gallon, less 6*d.* for cash, in 100-gallon drums for 60 o.p.

Aloes.—The exports from the Union of South Africa during March amounted to 44,150 lb. (396*l.*), against 39,159 lb. (415*l.*) in March 1916, and for the three months ended March 1917 exports were 113,473 lb. (1,063*l.*), against 330,197 lb. (3,028*l.*) for the corresponding period of 1916.

Amidopyrin is scarce at the moment, and prices are rather dearer at about 65*s.* per lb. net; it is expected to be more plentiful presently.

Ammonia Sulphate is quiet, with the home trade price fixed at 15*l.* 7*s.* 6*d.* per ton from June to September.

Anise Oil, Star, has advanced to 3*s.* 6*d.* per lb. e.i.f. for Red Ship brand for September-October shipment. The spot value is now 3*s.* 6*d.*

Aspirin.—In view of the strong and rising market for salicylic acid and firm rates for acetic anhydride, it is a puzzle to many as to why the prices of aspirin should be so severely cut. It is evident that some makers are working on a low cost salicylic acid bought before the advance. From 14*s.* to 14*s.* 6*d.* is quoted for B.P. quality.

Atropine.—Makers have advanced their prices by 5*s.* per oz. to 135*s.* for crystals and to 120*s.* for sulphate.

Balsam Peru is firm at 17*s.* per lb. net on the spot for pure. Recent arrivals from San Salvador show a poorer quality than previous shipments.

Barbitone is dearer at 120*s.* per lb. net on spot.

Benzoin is firm, with good Sumatra seconds offering at 8*l.* 15*s.*, and fair seconds at 7*l.* 12*s.* 6*d.* per cwt.

Bergamot Oil is quoted at from 20*s.* 6*d.* to 21*s.* per lb. on the spot.

Buchu is firm at from 6*s.* to 6*s.* 6*d.* per lb., according to quality and holder; longs are quoted at 4*s.* 3*d.*, and ovals are very scarce. The exports from the Union of South Africa during March amounted to 68,394 lb. (11,320*l.*), against 13,061 lb. (2,343*l.*) during March 1916, and for the three months ending March the exports were 89,314 lb. (14,622*l.*), against 47,697 lb. (8,128*l.*) for the corresponding period of 1916.

Canary-seed is quietly steady at 86*s.* to 88*s.* per quarter for fair to good Morocco.

Capsicums.—At auction 63 bales Nyasaland offered, and 30 sold at the easier rate of 40*s.* for slightly yellowish mixed.

Cassia Oil is dearer, the spot value of 80 to 85 per cent. being 4*s.* 8*d.*, and the arrival value 4*s.* 8*d.* per lb. c.i.f.

Castor Oil is firm, with good seconds Calcutta offering at 8¼*d.* per lb. ex store Liverpool.

Chamomiles.—Sales of old crop Belgian have been made at 350*s.* per cwt. on the spot, and for small French 420*s.* is asked.

Chillies.—At auction 26 bags Nyasaland sold at from 81*s.* to 82*s.* 6*d.* for rather dark, being easier; 100 bags Japanese were bought in.

Chiretta.—Sound is firm at 1*s.* 3*d.* per lb.

Chloral Hydrate is rather dearer at from 8*s.* to 8*s.* 3*d.* per lb. in bond.

Citric Acid is unchanged at 3*s.* 4*d.* per lb.

Clove Oil has advanced a further 3*d.* per lb. in sympathy with the rise in spice, English distillers quoting 7*s.* 9*d.*

Cloves.—Owing, it is said, to large American buying in the Zanzibar market, prices on spot (London) have now advanced to 1*s.* to 1*s.* 1½*d.* per lb. for fair, which figures have been paid and buyers. The London stock of Zanzibar at the end of June 1917 was 14,092 bales, against 19,355 and 8,275 at the corresponding periods of 1916 and 1915 respectively.

Cocaine.—Several sales of hydrochloride for August-September delivery have been made at the advanced prices.

Cocoa-butter is cheaper, with sellers of English in cases at 1*s.* 5*d.*, and at 1*s.* 4½*d.* per lb. in bales.

Cod-liver Oil.—Our Bergen correspondent writes on June 18 that last week's results gave a slight improvement in the Finmarken cod-fishing. All our cod-fisheries up to date give the following results:

	1914	1915	1916	1917
Catch of cod (millions) ...	80.8	66	49.2	26
Yield of c.l.o. (hect.) ...	57,000	52,200	57,200	34,800
Liver for "raw" oils (hect.)	10,900	8,500	5,100	5,400

Copper Sulphate for export is quoted at from 62*l.* 10*s.* to 63*l.* per ton f.o.b. Liverpool, the fixed price for home agricultural use being 50*l.* to 51*l.*, but with little available at the figures.

Coriander-seed has been sold at 70*s.* per cwt. on the spot for fair Morocco.

Cream of Tartar is firm at 242*s.* 6*d.* per cwt. for 98-per-cent. and 245*s.* for 99 to 100 per cent. powder.

Cubebs.—Small sales of sifted have been made at 18*l.* per cwt.

Cumin-seed is slow of sale: the quotation is 70*s.* to 75*s.* per cwt. for ordinary to good sifted Morocco.

Cuttle-fish Bone is available in fair quantities at 3*d.* per lb. for pieces.

Dill-seed has been sold at 50*s.* per cwt., being a little dearer.

Ergot is very quiet, with sound Russian offering at 2*s.*, and Portuguese at 2*s.* 2*d.* per lb. on the spot.

Eucalyptus Oil is rather firmer, sellers of 75-per-cent. test asking 2*s.* 4½*d.* per lb.

Fenugreek-seed.—Small sales have taken place at 38*s.* 6*d.* per cwt. for good Morocco.

Formaldehyde.—Sales have been made this week at 125*l.* per ton, and indications point to still higher rates, American makers taking full advantage of the situation.

GINGER.—Firm. At auction 375 bags Jamaica offered and a few sold at 95*s.* for good ordinary small and at 85*s.* for common dark small; 720 bags washed rough Cochin were bought in at 72*s.*, and bold brown Calicut rough at 70*s.*

GUAIACUM.—A small sale of good glassy block mixed with tear has been made at 4*s.* 6*d.* per lb.

GUM ACACIA.—Spot holders have again raised their prices, quoting fair Kordofan sorts on the spot at 80*s.*, and cleaned at 85*s.* per cwt.

HONEY has met with rather more inquiry during the past day or two; Cuban is offered at from 80*s.* to 85*s.* as to quality. It is roughly estimated that the exports of honey from Cuba during the year ended June 30, 1916, amounted to 4,000 tons, compared with 2,200 tons in 1914-15 and 5,600 tons in 1913-14.

HYPOPHOSPHITES have lately advanced 2*d.* per lb., small lots of calcium offering at 3*s.* 1*d.*, sodium at 3*s.* 4*d.*, and potash 4*s.* 10*d.* per lb. net.

INSECT-FLOWERS.—Japanese closed offer on the spot at 160*s.* per cwt.

LEMON OIL is quiet, with good brands offering on the spot at 4*s.* 3*d.* per lb. Writing on June 28, a Messina advice states that since our last advice there has been some activity among buyers here, and the market in consequence is a little firmer and higher prices are being asked. Price just now for oil from reliable shippers is 4*s.* 1*d.* per lb. c.i.f. London, including war-risk at present rate. The falling exchange for the pound sterling has the effect of keeping price a trifle higher than it might be.

LINSEED.—Some good Morocco has been sold at 29*l.* to 30*l.* per ton.

MENTHOL.—The nearest spot value for Kobayashi-Suzuki is 10*s.* 9*d.* per lb.

METHYL SALICYLATE is offered at from 5*s.* 3*d.* to 5*s.* 6*d.* per lb. net on spot.

MILK-SUGAR.—New Zealand in limited quantity of guaranteed B.P. make is obtainable at 210*s.* per cwt. on the spot.

MORPHINE SALTS.—Makers have advanced the price of morphine diacetyl by 3*s.* per oz. to 26*s.* per oz., diacetyl hydrochloride to 25*s.*, and ethyl hydrochlor. to 26*s.* net.

MYRRH remains extremely scarce, with a few packages of dark siftings on hand, for which 6*l.* per cwt. is asked.

NUX VOMICA.—Sellers of Madras on spot quote 40*s.* per cwt.

OLIBANUM.—Good drop is scarce, and is worth about 140*s.* and fair 120*s.* per cwt.

OPIUM.—Market remains firm and unchanged, with practically nothing doing, Persian of good test being still available at about 44*s.* per lb. on the spot. Druggists' opium, however, is practically unobtainable, and as the Government has withheld permission to import supplies, wholesale druggists find a difficulty in manufacturing medicinal preparations.

PEPPER.—Quiet, with sellers of fair *black* Singapore at 10¼*d.* to 10⅜*d.* per lb. on the spot; Alleppy and Tellicherry at 11½*d.* *White* Singapore on the spot is nominal at 1*s.* to 1*s.* 0¼*d.*

PEPPERMINT OIL.—For finest brands of American in tins on the spot 13*s.* net is asked, and on c. and f. terms 12*s.* 6*d.* is quoted; demand is small.

PHENACETIN is still offering at between 85*s.* and 90*s.* per lb. net on spot.

PHENAZONE.—A consignment of Swiss make has come to hand which should relieve the scarcity, although the bulk of it is sold.

PILOCARPINE.—A little is obtainable on the spot at 27*s.* 6*d.* per oz., but the French makers intimate that prices will have to be advanced shortly.

POTASH PERMANGANATE.—With the limited supplies in the hands of a few second-hand dealers who fix their own valuations, the needy buyer has to pay about 15*s.* per lb.

QUILLAIA.—In Liverpool whole is quoted at 42*l.* per ton ex store, and the spot (London) value is 43*l.*

QUININE is unchanged in the dealers' market at from 2*s.* 8*d.* to 2*s.* 8½*d.* per oz. Makers are still obliged to refuse orders, and are fully occupied until July-August. The landings during June were *nil*, and the deliveries 494,144 oz., leaving a stock of 551,344 oz. on June 30, against 1,373,840 oz. at the end of June 1916.

RESORCIN.—But little is available on the spot, with 80*s.* to 85*s.* asked

RHUBARB.—There is a good inquiry from consumers, and prices remain very firm.

SALICYLATES.—There is a constant and extensive demand for salicylic acid, and the shortage appears to be growing acute. English B.P. acid-powder is fully worth 6*s.* 9*d.* to 7*s.* 3*d.*, and in some instances more is asked. This is about the parity of the American price for forward delivery, and the question arises as to how long these figures will remain in force. *Sodium salicylate* is worth from 8*s.* 6*d.* to 9*s.* on the spot.

SALOL.—Sales of crystals have been made at from 9*s.* 6*d.* to 10*s.* per lb. net on spot.

SHELLAC has been very quiet and rather lower, with the usual standard TN Orange quality offering at 210*s.*, and fine Orange at 290*s.*; blocky AC Garnet is 225*s.* The landings during June were 1,088 cases and the deliveries 1,992, leaving a stock of 36,489 cases, against 85,233 cases last year.

SODA HYPOSULPHITE.—Pea crystals to come forward offer at 25*l.* per ton, but for actual spot delivery rather more would have to be paid; commercial is offered at 21*l.*

SPARTEINE.—With small stocks price is nominal at about 8*s.* 6*d.* per oz. for sulphate.

SPEARMINT OIL.—Prices have advanced in sympathy with peppermint oil, 11*s.* 6*d.* being asked on the spot and 11*s.* on c. and f. terms.

SPIRITUOUS PREPARATIONS like spirit. æther nit. spirit. ammon. aromat., etc., have been advanced 3*d.* and more per lb. *Acetic ether* is dearer at 6*s.* 6*d.* per lb.

TARTARIC ACID.—Prices are irregular at from 2*s.* 11½*d.* to 3*s.* per lb. as to holder.

TURPENTINE is firmer on the week, American closing at 55*s.* 6*d.* per cwt. on the spot.

VALERIAN.—The business referred to on the spot last week was in Indian at 230*s.*, and not Japanese as might be inferred from our paragraph.

VANILLIN.—Makers find themselves compelled to raise prices again, and from 42*s.* to 43*s.* per lb. is now the lowest which will be entertained. Prices lately have been forced up somewhat rapidly, which may mean the revival of competition with America.

WAX, JAPANESE.—Good pale squares are offered on the spot at 78*s.* per cwt., and July-August shipment at 66*s.* 6*d.* per lb. c.i.f.

Prices of Ammonium Sulphate.

In our issue of June 16 (p. 49) we gave particulars of the prices fixed by the Food Production Department for ammonium sulphate in quantities of not less than 2 tons, since when a further circular has been issued fixing the net cash retail prices to consumers, in quantities under 2 tons, for delivery in Great Britain by dealers ex store or by makers ex works, at not exceeding the following rates:

—	Quantities of 28 lb. and less than 1 cwt.	1 cwt. and less than 2 cwt.	2 cwt. and less than 1 ton	1 ton and less than 2 tons
June 1, 1917, to Dec. 31, 1917	20*s.* per cwt.	18*s.* per cwt.	17*s.* per cwt.	£16 10*s.* per ton
Jan. 1, 1918, to May 31, 1918	21*s.* per cwt.	19*s.* per cwt.	18*s.* per cwt.	£17 5*s.* per ton

No additional charge is to be made for excess over 24½-per-cent. basis in respect of these small quantities. Dealers and farmers, if unable to obtain supplies from local works, should apply to the Sulphate of Ammonia Distribution Committee, Food Production Department, 72 Victoria Street, London, S.W. 1.

American Peppermint Oil.

Mr. F. M. Rudd, of Bronson, Michigan, writes to his agents (R. W. Greeff & Co.), under date of July 3, as follows:

"Much frost damage. Peppermint materially higher. You will note that the crop has been materially damaged by frost which occurred last Friday night. The freeze extended over a very large part of the producing district, and in many cases absolutely ruined the chances of harvesting a crop of peppermint this year. Some fields, of course, escaped with very little, and possibly no, damage, but the crop yield has unquestionably been reduced from 25 per cent. to 40 per cent., and as the acreage this year was small in the beginning, we do not believe there is any possibility of anything but a very moderate production. This belief is shared by all of the growers, and as a result we think very high prices will follow the coming harvest."

American Saccharin.

The "New York Commercial" (June 12) intimates that two very large concerns outside those generally known to the chemical trade have perfected plans for producing large quantities of saccharin, and that the scarcity should be relieved not later than September. The shortage of permanganate of potash is primarily responsible for the difficulties of the manufacturers of saccharin. It is now stated that a process for manufacturing permanganate on a commercial scale has been found, and within the next three

months one leading manufacturer will be turning out more than 200,000 lb. each year at a factory not more than 200 miles from New York City. The present quotation for saccharin in the open market is $34 per lb., which the producers regard as a misleading figure, as more than 95 per cent. of the production has been sold at $12.50 per lb. The price at which future offerings will be made is contingent, of course, upon Government taxes and other considerations, but a sharp reduction from present prices is assured.

Atmospheric Nitrates.

The atmospheric-nitrates industry in Norway and Sweden is dealt with in the "Wirtschaftsdienst" of April 13, full particulars being given of the operations of the leading concerns, which appear to have made greater progress in Norway than Sweden, this being due to cheaper water-power. The exports, in double centners (2 cwt.), were as follows:

	1914	1915	1916 Jan.–Oct.
Sodium nitrate	890,677	739,547	59,620
Ammon. nitrate... ...	1,195,876	2,645,866	425,360
Sodium nitrite-nitrate...	35,546	31,496	64
"Norgesalpeter" (calcium nitrate)	7,517,577	3,816,791	445,780
Cyanimide	13,371,959	2,478,702	130,500
Nitric acid	432	7,417	31,580

The great increase in nitric acid in 1916 is a feature, but, unfortunately, the statistics do not show the destinations of the exports.

Arrivals of Chemicals, Drugs, etc.

THE following is a selection of imports into the Ports of London and Liverpool for the period June 26 to July 2 inclusive:

To London.

Acetic acid, 184 brls.
Amidopyrin, 1 cs.
Analgesin caf. cit., 3 cs.
Argol, 1,146 bgs.
Arsenic, 118 cwt.
Balsam tolu, 10 cs.
Belladonna ext., 1 cs.
Betanaphthol, 6 brls.
Bismuth subsalicyl., 16 cs.
Bromides: ammon., 10 cs.; potash, 4 pkgs. 30 cs.; sodium 10 cs.
Caffeine, 1 cs.
Cajuput oil, 20 crts.
Carbon black, 100 cs.
Carbon tetrachlor., 18 dms.
Casein, 8,163*l.*
Chloral hyd., 5 cs.
Chlorophyll, 2 cs.
Cocculus indicus, 50 bgs.
Cream of tartar, 13 cks.
Dental goods, 2,808*l.*
Dog grass, 19 bgs.
Drugs, unrated, 59*l.*; roots, barks, herbs, etc., 54 pkgs.
Dyestuffs: cutch, 500 cs. 250 bxs.; divi-divi, 161 bgs.; hematine crystals, 126 brls.; indigo, 38 chts.; logwood ext., 35 brls.; myrabolans, 10,991 bgs.; tanners' bark, 215 tons
Ergo-apiol, 5 cs.
Formaldehyde, 76 brls.
Fullers' earth, 13 tons
Fusel oil, 1,188*l.*
Galls, 900*l.*
Gelatin, 1,737*l.*
Geraniol acetate, 2 tins
Glycerin crude, 640*l.*; distilled, 10,062*l.*
Glycerophosph. calc., 3 cs.
Gums (cwt.): acacia, 106; animi, 53; sandarac, 790
Heliotropin, 1 cs.
Hexamine, 4 cs. 5 dms.
Hydroquinone, 5 kgs.
Insect-powder, 29 bgs.
Kelphadol, 4 cs.
Kola, 238 cwt. 140 lb.
Lithopone, 840 brls.
Loofahs, 760*l.*
Marshmallow-root, 52 bls.
Metol, 1 cs.
Mineral jelly, 597 bxs.
Nuts and kernels (cwt.): arachis, 4,940; cashew, 1,320; copra, 30,546; palm-kernels, 1,212; shea-nuts, 32,700
Nux vomica, 3,271 bgs.
Oils, essential: 82 dms. 145 cs.: synthetic, 3 cs.
Oils, fixed: arachis, 150 brls. 1,550 cs. 325 cks.; castor, 1,281 cks. 116 brls.; cocoanut, unref., 475 cs. 217 pps. 30 pns. 25 hhds.; fish, 1,100 cs.; tea-seed, 747 cs.; turpentine, 1,490 brls.; wood, 3,074*l.*
Paraformaldehyde, 6 cs.
Paraldehyde, 9 cs.
Perfumery, unrated, 283*l.*
Phenacetin, 6 cs.
Pyrogall. acid, 6 cs.
Rosin, 4,100 brls. 597 cks.
Saffron, 1 cs.
Sal hepatica, 4 cs.
Salol, 22 cs.
Sandalwood, 87 bdls.
Sarsaparilla, 10 bls.
Seeds (bgs.): canary, 4,158; castor, 10,928; celery, 17; coriander, 1,121; cotton, 2,725; cumin, 788; dill, 50; fenugreek, 850; hemp, 560; lin, 10,842; poppy, 200; rape, 15,592; sesame, 862
Senega, 19 bls.
Senna, 1,777 bls.
Shellac, 147 cwt.
Soda salicylate, 16 cwt.
Sponge, 41 bls.
Starches (cwt.): maize, 2,400; potato flour, 5,613
Sulphur, 4 cwt.
Tartaric acid, 36 brls.
Theobromine, 1 cs.
Thorium nitrate, 860*l.*
Trichloracetin, 1 cs.
Tungstic acid, 2 cs.
Turmeric, 178 bgs. 89 bls.
Urodonal, 24 cs.
Vacuum flasks, 307*l.*
Vanilla, 49 cs.
Wax, paraffin, 5,071 cwt.
Wax (mostly bees'), 14 cs. 1,062 bgs. 15 pkgs.
Wine-lees, 243 bgs.

To Liverpool.

Acetic acid, 638 brls.
Alum, 134 brls.
Bromides: ammon., 9 brls.; sodium 16 cs.; sodium and ammon., 75 cs.
Cream of tartar, 120 cks.
Dental goods, 741*l.*; surgical goods, 227*l.*
Drugs, unrated, 21 cs. 190 pkgs. 47 bls.
Dyestuffs, unrated, 22 pkgs. 113 bgs. 6 cs. 38 brls.; chestnut ext., 2,765 brls. 620 cks.; fustic ext., 10 brls.; logwood ext., 12 cks.; mangrove ext., 2,610 pkgs.
Eucalyptus oil, 80 cs.
Glycerin, ref., 15 drms.
Gums: acacia, 3 bxs.; thus, 2 brls.
Kola, 39 bgs.
Liquorice ju., 8 cs.
Nuts and kernels: arachis, 13,575 bgs.; copra, 200 bls.; palm-kernels, 70,326 bgs.; shea, 2,417 bgs.
Oils, essential, 52 cs. 22 dms.
Oils, fixed: arachis, 5,000 cs.; palm, 2,255 brls.; wood, 56 cks.
Oxalic acid, 12 cks.
Petroleum jelly, 100 brls.
Rosin, 1,899 brls. 118 cks.
Seeds (bgs.): castor, 2,226; fenugreek, 293; lin, 1,231; rape, 2,462
Soda nitrate, 5,256 bgs.
Soda salicylate, 25 kgs.
Sodium metal, 335 cwt.
Tannic acid, 2 brls.
Tartaric acid, 36 brls. 105 kgs. 8 cks.
Thorium and cerium nit., 17 cs.
Tuba-root, 62 bls.
Vaseline, 1,497 cs.
Wax, bees', 5 cs.
Wax, paraffin, 2,574 bgs.

Correspondence

The Elusive Balance-sheet.

SIR,—Evidently "Sigma" knows something when he says, "A balance-sheet was publicly promised." A delegate at Newcastle local conference last autumn told me that it was definitely stated there that a balance-sheet would be presented to the contributing Committees. What has the Local Associations Executive to say? Doubtless the Council is relying on the moribund condition of Pharmaceutical Committees, the apathy resulting from war strain, and the elimination of the Conference to gloss over this glaring scandal. For all that, I am amazed that intelligent business men can swallow such an insult. Has no protest been made to the Council? Yours faithfully,

PELOPS. (71/29.)

SIR,—Your correspondent "Sigma" refers to the "progressive element" in pharmacy, and expresses the hope that this progressive element may demand more publicity with regard to the elusive balance-sheet of the Local Associations Executive. In the past, there have been many attempts to federate together groups of Associations, but apparently most of the would-be federates have overlooked the prospect of linking up progressive intelligent men rather than Associations. A number of progressive pharmacists in the Greater London area are anxious to get in touch and to work in harmony with other progressive pharmacists in different parts of the country, and to bring about this desirable state of affairs they have decided that "The Script," which has hitherto mainly circulated in the South, shall be used as the link between those men who think alike and who have at heart the common good of pharmacy. I feel sure that all my friends will rally round the promoters of what may be known as "The Progressive Party" in pharmaceutical politics, and, on receipt of a postcard, I shall be happy to send to any pharmacist full particulars of the movement, its aims and aspirations. One point I would very much like to make clear, and that is that this movement is in no way inimical to the best interests of the Pharmaceutical Society. It is hoped that by linking up pharmacists rather than territories the best in pharmacy may be combined to work for the common good, without the disintegrating influence of local jealousies.—Yours truly,

HUGO WOLFF,
Secretary Middlesex Pharmaceutical Committee.
180 Philip Lane, Tottenham, N.

The Supply of Copper Sulphate.

SIR,—Mr. Goode, of Poplar, complains, with less or more reason, about the Board of Agriculture for fixing the price of copper sulphate at 6½*d.* per lb. retail, and suggests 8*d.* as a reasonable figure. In my opinion he is doing very well when he gets the 6½*d.* I have handled over four tons at 6¼*d.* per lb., and was very glad to get it after paying 10*s.* per ton cartage your side and 3*l.* per ton freight from St. Katherine's Dock to Pomeroy. Many druggists and chemists in Ireland are glad to get 6*d.*, rather than run the chance of carrying over three or four hundred pounds' worth till next season, such is the fierce competition for the sale of copper sulphate in small towns in Ireland.

Yours truly,
Pomeroy, co. Tyrone. J. F. GRIMES.

Irish Chemists' Assistants.

SIR,—I am pleased to see that there is now a movement inaugurated having as its objective the shortening of the working-hours, the increase of remuneration, and the general betterment of the conditions under which chemists' employés are compelled to serve in Ireland. From my long experience as assistant and as manager, I believe I can give my *confrères* a few interesting and profitable hints. At present I am engaged chiefly as dispenser for a leading firm of "cash chemists" in Great Britain, and, though I hold the Ph.C. qualification (by examination), am not "legally" (*sic*) entitled to act in the capacity of manager, my name not being on the Register of the Pharmaceutical Society (Great Britain). Nevertheless, the remuneration I am receiving for my services is substantially better than the mere pittance I received when employed as manager in cities and provincial towns in Ireland; my hours on duty are much shorter, my meal-times regular and uninterrupted, and I enjoy the weekly half-holiday and the complete day of rest on Sunday; so, all things considered, I calculate it pays to be an exile. Yours truly,

PADDY. (67/21.)

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Proprietary Medicines for Insured Persons.

SIR,—In my previous letter I asked "Xrayser II." some plain questions, but he evades them all. Why? I impute no motive for his silence, but neither can I allow him to slide out of a false position with a platitude that deceives nobody, least of all himself. Let us stop ringing the changes on "proprietary" and "secret" preparations, and talking at large about scientific prescribing, and get down to one or two concrete cases. Here is one in which I am myself interested. A working man—a gardener—industrious, honest, sober, and upright in conduct, contracts rheumatism through no fault of his own, largely perhaps by his devotion to duty in inclement weather, and the trouble settles in his joints as an exceedingly severe and painful arthritis. The man becomes a helpless cripple, is treated by every means possible under the National Insurance Act, is sent to a hospital from which he is discharged as incurable, and there is no prospect before him in life but that of a bedridden inmate of a workhouse infirmary. This man has not received under the National Insurance Act, as he was certainly entitled to receive, the most modern and successful treatment for his ailment. Why not? Not because the remedy is secret, not because it is expensive, but simply and solely because it is proprietary. The doctor knew it was not allowed by the Commissioners, and though he himself had successfully treated similar cases in private practice, it was not to be expected that he would use or propose to use a treatment that would in all likelihood have to be paid for by himself. Now contrast this case with another—all my brother-pharmacists know him and his kind—also a working man, who through his own misconduct contracts syphilis. What happens in this case? The public purse is freely opened, and the most expensive proprietary medicine ever heard of is provided and run into his veins by the most skilful physicians available, these men being specially retained for this purpose at the public expense. The question I now ask is this: Does "Xrayser II." approve of treatment being denied in the one case and provided in the other? In both cases the medicines are proprietary, and in neither case is secrecy admitted. What code of honour or of justice condemns the one man to a useless and painful existence, when the expenditure of a few pounds might restore him to health and make him once more a useful member of society, while the other man receives treatment at the public expense, no matter what the cost?

Yours faithfully,
M. P. S. (91/19.)

More Inspection Wanted.

SIR,—I am a pharmacist, and have been a member of the Pharmaceutical Society since I qualified, and I should like to point out the injustice done to some pharmacists who have branches and have difficulty, especially at these times, with qualified managers. At present several pharmacists are going in for the study of medicine; that means forsaking brother pharmacists and the interests of pharmacy, and entering the antagonistic camp. Now, why should pharmacists studying medicine the greater part of the week be allowed to leave in charge apprentices and wives at their shops under these conditions? If these pharmacists can afford to study medicine under the cloak of pharmacy, which apparently is easily done when they reside within a short radius of medical schools, what I maintain is that in the interests of pharmacists these men should leave in charge qualified men. I hope the new members of Council, Messrs. Jenkin and Hines, will see to this injustice. I am in favour myself of a strong Pharmaceutical Society on the same lines as the British Medical Association, and if necessary raising the fee from 1*l.* 1*s.* to 2*l.* 2*s.* By this means it may be possible to provide qualified pharmacists as inspectors in different parts of England and Wales. By correcting these injustices I honestly believe that every pharmacist would be a member of Society if the Pharmaceutical Society would tabulate a scheme and circulate it to the various Associations in different parts of the country. Then would pass away the old phrase, "What has the Society done for me?"

Yours faithfully,
PROGRESSIVE PHARMACIST. (64/34.)

Subscribers' Symposium.

For interchange of opinion among "C. & D." readers, and brief notes on business and practical topics, especially new ideas.

Soft Paraffin.

X. Y. Z. (91/19) has a difficulty in obtaining a soft paraffin which does not, on standing, separate a portion of an oily character. The experience of other chemists on this matter is asked.

Women Pharmacists.

Mr. W. T. Tucker, Lewisham, S.E., writes: "The writer of the report of the meeting of the South-West London Pharmacists' Association, who states that the election of Miss Borrowman to an office in that Association is 'probably the first instance of a lady taking office in an Association of Pharmacists run by men,' has overlooked the fact that Miss K. N. Horniblow, Llandudno, occupies an official position in the local Association of North Wales."

Insurance Lint.

Mr. H. M. Tranmer, dispensing chemist, Smethwick, asks for the opinion of readers as to what should be supplied on an Insurance prescription which orders "Lint 3j." [We are not quite sure what Mr. Tranmer's point is, but we think it is in regard to the use of the apothecary's ounce. It appears to be the practice at Prescription-pricing Bureaus to charge for an avoirdupois ounce even when the apothecary's ounce sign is employed on the prescription.]

Dispensing Difficulties and Notes.

W. A. (31/64).—The development of a black colour in the sugar-of-lead and logwood lotion is due to the formation of lead tannate by the tannic acid in the logwood. It is not possible to make a permanent red lotion containing sugar of lead, owing to the gradual formation of lead carbonate, which forms a lake with the colouring-matter. You had better make the red lotion from zinc sulphate and tr. lavand. co. in the usual way, or have a lead lotion without any colour.

An Insurance Prescription.

SIR,—The following prescription was handed in by a panel patient last week, and shall be glad to know how best to dispense it.

Yours faithfully,
"PASTEUR." (65/7.)

Ext. nucis vom. liq.	ʒss.
Tinct. belladonnæ	ʒj.
Mag. sulph.	℥iv.
Emuls. petrol. hypophosph. B.P.C.	ʒj.
Paraffin. liq. ad	ʒviij.

ʒss. 4tis horis.

[Triturate the fluid extract of nux vomica, tincture of belladonna, and magnesium sulphate together, add gradually the emulsion, and finally incorporate the liquid paraffin. The result is a nice paste, which should be dispensed in a bottle with a neck sufficiently wide to admit a spoon. The combination is unusual and the dose large when the frequency is considered. There are some suggestive ideas about the prescription, however, from which a useful and novel preparation might be evolved.]

Legal Queries.

Most difficulties in trade law are explained in the legal section of "The Chemist and Druggist Diary," 1917, beginning on page 353.

Appliances (60/62).—There has been no recent legislation in regard to the sale of Malthusian appliances.

J. S. (71/1).—The sun-blind announcement you mention would not, so far as we are aware, infringe any statute, but it is injudicious, to say the least.

"*X*" *Leeds* (60/53).—SALE OF VENEREAL REMEDIES.—Your inquiries are answered in the *C. & D.*, June 23, p. 56. If there are any other points about which you are in doubt, we shall be glad to reply further.

V. J. W. (67/44).—It is illegal for you to compound tincture of iodine with methylated spirit, or to have it in your possession. It was shown, moreover, some years ago that iodine develops irritating properties if mixed with methylated spirit.

Kernel (59/48).—KEEPING OPEN SHOP.—The proof of a charge against an unqualified person for keeping an open shop for the sale of poisons would be the actual sale of a scheduled poison. The "business" referred to in the Poisons and Pharmacy Act, 1908, Section 3 (1), is that part which relates to the sale of poisons.

In Doubt (59/33).—INSURED PERSONS are entitled to be supplied with surgical dressings on the order of the doctor upon whose panel they are. The fact that the men's employers are insured under an accident-insurance policy does not concern the chemist who receives the prescription for appliances on the Drug Tariff.

Miscellaneous Inquiries.

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

J. S. & S. (Lahore) (34/46).—MISCIBLE DISINFECTANTS.—The typo you refer to consists of tar oils emulsified with caustic potash. These are dealt with in detail in "Pharmaceutical Formulas." We gave a good recipe in the *C. & D.*, February 26, 1916, p. 64, which you could make a starting-point for your experiments.

Chemicus (60/26).—WHITE OILS WITHOUT EGGS.—You might replace your white liniment made from eggs by a turpentine liniment made with soft soap, or an ammonia liniment made with sesamo oil, which would not become solid. Both of these are inseparable provided they are properly made, and both will answer the purpose of the acetic-acid liniment, the virtue of all three being simply in the amount of counter-irritation produced by the application and friction. A good formula for a modified turpentine liniment was printed in the *C. & D.*, February 3, p. 52.

O. H. (56/60).—The most satisfactory method of preventing labels on tins becoming stained through rust is to varnish the tin surface, and when quite dry apply the label. Any ordinary spirit-varnish will do.

Manicure (30/44).—OINTMENT FOR BROKEN CUTICLES.—This should be emollient, antiseptic, and moderately drying. A suitable ointment consists of equal quantities of soft paraffin, citrine ointment, and zinc ointment. If a milder ointment is desired, yellow oxide of mercury ointment may be used instead of the ung. hyd. nit. Apply this ointment at night and wash it off in the morning.

Kô-Sam (65/19).—The formulæ you require are as follows:

The Ointment.

Camphor	½ lb.
Lavender oil ...	2 oz.
Rosemary oil ...	2 oz.
Peru balsam ...	2 oz.
Carbolic acid ...	1 oz.
Soft paraffin ...	1½ lb.
Wool-fat	5 lb.

Phosph. Tonic Tablets.

Quinine phosphate	¼ gr.
Sugar of milk ...	q.s.

Aromatic Digestive Pellets.

Aromatic powder (U.S.P.)	1¼ oz.
Diastase	¼ oz.
Pancreatin	2½ oz.
Pepsin	20 oz.
Lactic acid ...	2 dr.
Hydrochloric acid	6 dr.

W. C. (65/11).—FRUIT-PRESERVATION.—The methods given in the *C. & D.*, June 9, p. 51, apply also to rhubarb. It is not necessary to add chemical preservatives if proper precautions are taken to keep the vessels air-tight.

Gapes (56/5).—POWDER FOR GAPES IN CHICKENS.—The powders for treating gapes, which are blown into the throat, consist of camphor (1), chalk (4), or carbolic disinfecting-powder. Another method is to dust the powder in a coop, place the birds inside, and raise a dust by means of bellows. The chickens in this way breath an atmosphere laden with medicated powder.

W. J. W. (53/35).—BRONZING COPPER.—The process in which sulphide is employed is as follows: Carefully clean the copper article from grease, and then immerse in or apply by means of a sponge the following solution:

Potassium sulphide	120 gr.
Ammonium chloride	6 dr.
Water	20 oz.

Allow the copper article to be exposed to the air for half an hour or so until dry, and then scratch-brush it. The operation usually requires to be repeated once or twice to get a satisfactory colour. When this is secured, finish by brushing with a waxed brush.

Insect (41/43).—EARWIGS IN OUTDOOR SHELTER.—It is one of the disadvantages of a garden-shelter that the sleeper is liable to have earwigs crawl over him. Nothing we know of is effective in keeping the pests away, but the visitations are minimised if the shelter is raised from the ground and is placed in a position away from bushes and overhanging trees.

Sequah (42/37).—WATERPROOFING A COAT.—There are two main processes for waterproofing cloth: (1) Dip the clothing into a solution of 5 to 10 parts of anhydrous wool-fat in 90 or 95 parts of petrol, the lanoline being first liquefied by a little chloroform, carbon bisulphide, or carbon tetrachloride. (2) Dissolve calcium carbonate 130 grams in 300 grams of acetic acid. Separately dissolve 300 grams of crystallised aluminium sulphate in 1,000 c.c. of water. Mix the solutions, shake, and set aside for twenty-four hours, occasionally shaking; then decant the clear liquor. Make another solution of Castile soap 1 in 20. Damp the coat with a sponge dipped in the aluminium-acetate solution; then do the same with the soap solution, and dry.

J. B. (53/31).—INSECT-INFESTED SOIL.—The best treatment for soil infested with "leather jackets" and similar insects is to dig in fumigants of the naphthaline class. Vaporite, a proprietary fumigant, is much used. It requires about 1 lb. for every 8 or 10 sq. yards.

Ignoramus (57/25).—HAIR FALLING OUT IN ROUND PATCHES.—The epidemic to which you refer is probably due to ringworm. The following ointment is effective for arresting and curing the trouble:

Ac. salicylic., Ac. benzoic. ... ... aa.	gr. xv.
Paraff. moll. flav.	ʒj.

Cut the hair round the patches and rub the ointment well in. Wash the part once a week with soap and hot water. The treatment requires great perseverance, but we think the method outlined will be an improvement on the blistering application which you have been using.

R. C. T. (63/6).—HAIR-RESTORER.—The clear variety of hair-restorer to which you refer is made from a formula such as the following:

Acetate of lead	ʒj.
Saturated solution of sodium hyposulphite	a sufficiency
Glycerin	ʒj.
Rectified spirit	ʒss.
Rose-water to	ʒxx.

To the lead salt, dissolved in 2 oz. of water, add the solution of the hyposulphite until the precipitate formed is redissolved. Continue to add half as much more hyposulphite, then the rest of the ingredients.

H. S. (64/13).—DEPOSITING TIN.—Vessels are tinned by contact with melted tin, by tin amalgamation, by simple immersion, and by electro-deposition. The electroplating process does not require heat—which you say is inadmissible—the battery solution being composed of:

Potassium pyrophosphate ...	12 oz.
Tin protochloride	4½ oz.
Water	20 oz.

The anode used is of pure tin, joined to the carbon pole, the article to be tinned being suspended from a wire connected with the negative (zinc) pole. A moderately strong battery is required, and the work is finished by scratch-brushing.

Lux (67/8).—The doses of phenacetin and phenazone are the same (5 to 15 grains), so that the small amount of phenazone (½ grain) in each powder is perfectly harmless.

W. N. (67/16).—DENTAL LOCAL ANÆSTHETIC.—A cocaine-free solution is made as follows:

Novocaine	gr. v.
Sodium chloride	gr. iv.
Solution of thymol (1 in 10) ...	mj.
Sterilised distilled water ...	ʒj.

Mix and add 20 minims of adrenalin solution if required. Fifteen minims, and not more than 30 minims, to be used at one operation.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," July 15, 1867

United Society of Chemists and Druggists.

The dinner was this year, by appointment, held at Manchester, on Wednesday, 26th June. . . . Mr. W. Gibson was called upon to respond to the toast: "Success to the Amended Pharmacy Bill in Parliament. May it inaugurate a lasting union amongst all classes of chemists and druggists, and raise the educational standard of the trade." He remarked that, as a member of the Pharmaceutical Society, he could have little personal interest in the United Society; but he had thought the Pharmaceutical Society too restrictive, and the United Society had done much for the trade, not only by stimulating the Pharmaceutical Council to liberal action, but by bringing all classes into friendly relation with one another, and therefore facilitating the union of the trade. (Applause.)

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Carmine, Finest, 1 lb. @ 35/- lb.; No. 2, 1 lb. @ lb.
Cera Alba, B.P., White Moons, 28 lbs. @ 2/8 lb.; 4 lbs. @ 2/9 lb.; Flav. 1 lb. Blocks, 28 lbs. @ 2/4 lb.; 4 lbs. @ 2/5 lb.; 1 oz., ¼ oz. tabs., 7 lbs. @ 2/6 lb.
Cerii Oxalas, 1 lb. @ 6/6 lb.
Cetaceum, No. 1, fine white, 64 lbs. @ 11d. lb.; 7 lbs. @ 1/2 lb.; powder, 7 lbs. @ 1/6 lb.
Chloral Hydras Cryst., B.P., 7 lbs. @ 11/3 lb.; 1 lb. @ 12/- lb.
Chlorodyne, 5 lbs. @ 3/- lb.
*Chloroform, pure, B.P., 12 8-lbs. @ 3/9 lb.; 8 lbs. @ 3/11 lb.; 6 1-lb. bots. @ 4/3 lb.
Cocaine Hydrochlor., 1 oz. @ 30/-.
Codeina, 1 oz. @ 24/6 oz.; Phosph., 1 oz. @ 21/- oz.; Hydrochlor. or Sulph., 1 oz. @ 22/- oz.
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Cream of Tartar, 98% powder, 1 cwt. @ cwt.; 7 lbs. @ 2/5 lb.

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Cubebæ, English Ground, 28 lbs. @ 3/8 lb.; 7 lbs. @ 3/10 lb.

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* " Cinchonæ (Rubræ) Conc., 1-7, 6 lbs. @ 2/3 lb.
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Emp. Picis, P.B., 7 lbs. @ 1/3 lb.
" Plumbi, P.B., 7 lbs. @ 1/3 lb.
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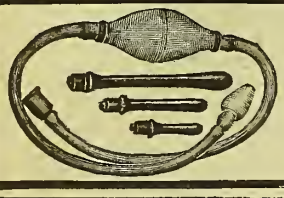

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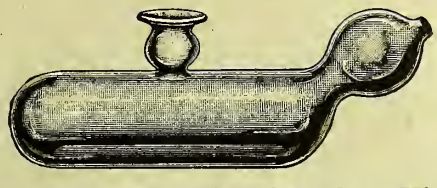

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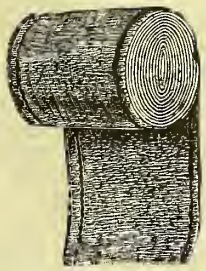

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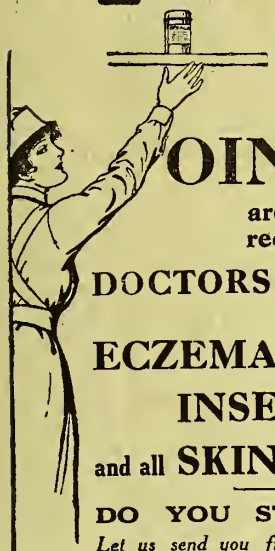

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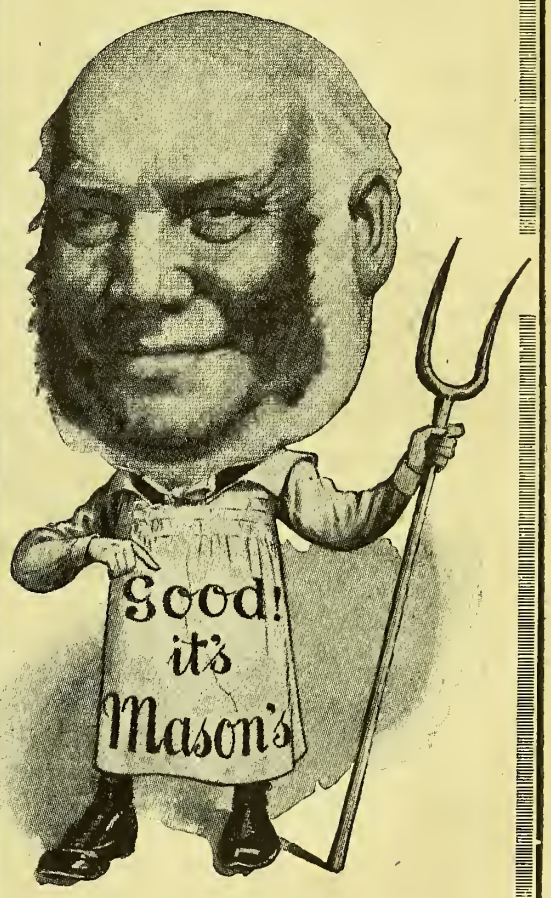

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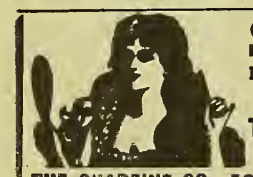

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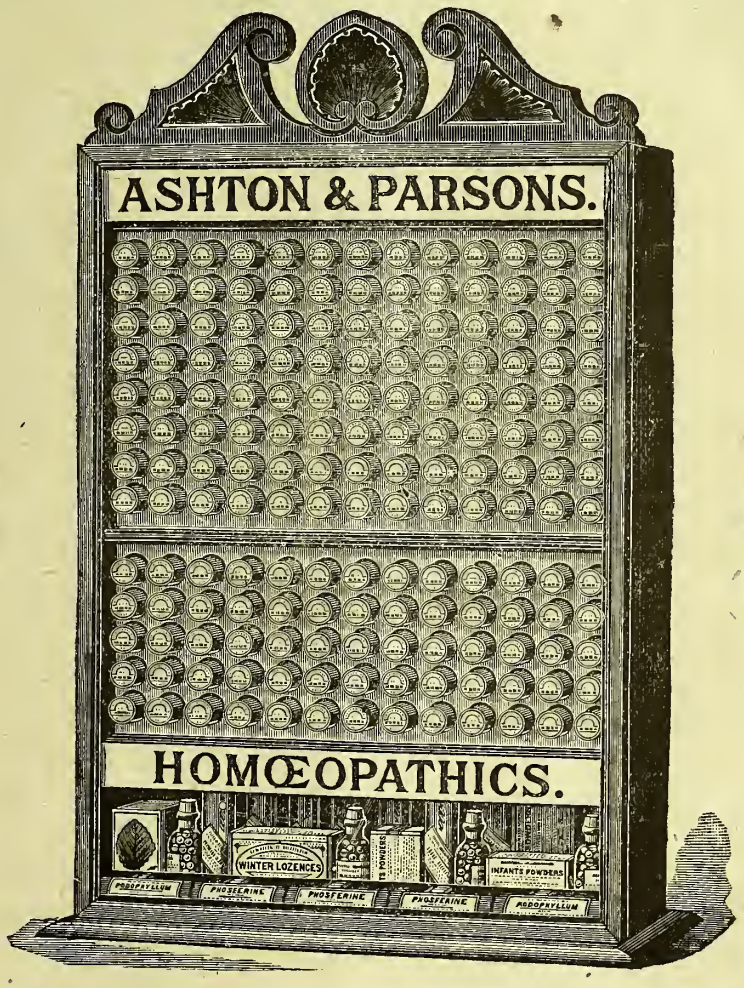

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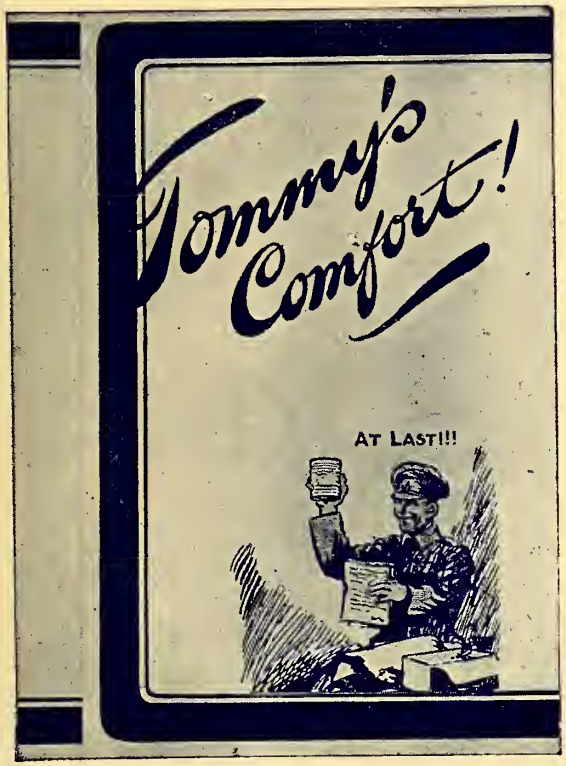

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May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

1.—MIDDLESEX (Distant Suburb).—Good-class Business; capital position; returns about £2,000; intending investors with £1,100 at command will find this a sound concern; full investigation invited.

2.—LONDON (Southern Suburb).—Good middle-class Retail and Dispensing Business; position unique; returns show a steady increase and are now over £1,600; well-appointed shop, handsomely fitted in mahogany, in modern style and fully stocked; vendor will accept first reasonable offer.

3.—BANKS OF THE THAMES.—Good-class connection in favourite residential district; returns last year between £1,850 and £1,900; *net profit, after paying full rent,* £461; price, to include stock and fixtures, recently valued at £650, £850.

4.—LONDON, S.W.—Medium-class Family trade; well established; turnover averages £925; *gross profit* £355; comfortable residence; rent £45; sub-let £13; no near opposition; price £400, or valuation of stock and fixtures.

5.—KENT (Suburban).—Middle-class Retail and Dispensing Business; no N.H.I.; returns £900; *net profit* £249; comfortable residence; moderate rental; price £275 on entry and balance, £175, by instalments; full investigation courted.

6.—PORTLAND ROAD STATION (Within Easy Distance of).—For Disposal through death, good middle-class Business; Retail and Dispensing; excellent position in main thoroughfare; returns about £1,000; scope for considerable extension under energetic management; valuation terms entertained.

7.—WALHAM GREEN STATION (Within Easy Distance of).—Ready-money Retail; returns upwards of £1,000 per annum at fair prices; *net profit estimated at* £300; price £750, about the value of stock and fixtures.

8.—SURREY.—Good-class Retail and Dispensing Business, with Optical connection, in select residential district; returns about £2,500 per annum; terms, valuation of stock and fixtures and sum for goodwill to be agreed equitably.

9.—SUSSEX (Health Resort).—Unopposed Mixed Country Retail Business, with own Proprietaries; steadily increasing returns, now between £1,300 and £1,400; rent £45, for double-fronted shop and good seven-roomed house and garden; terms, lease and goodwill £120, stock and fixtures at valuation.

10.—HANTS (Health Resort).—Retail and Dispensing Business; held by vendor many years; returns £2,000 yearly at fair prices; terms, goodwill £100, stock and fixtures by valuation.

11.—OXON. (Market Town).—Good-class Business, Retail, Dispensing, and Photographic, with small Mineral Water Plant; returns average over £1,000 yearly; scope for development; good position in main thoroughfare; valuation terms entertained.

12.—BOURNEMOUTH.—Old-established Business, essentially Dispensing and Family Retail; position unique; returns £2,500; under modern management an opening presents to considerably augment the turnover; terms, valuation of stock and fixtures, less a substantial rebate; vendor retiring.

13.—WEST OF ENGLAND.—Vendor retiring; price £350, or best offer will secure a good-class Retail and Dispensing Business returning about £800 yearly, with scope for development under energetic management; further details on application.

14.—LAKE DISTRICT.—Mixed Business, with excellent sale for own Proprietaries; returns about £3,000; terms, stock and fixtures at valuation and sum for goodwill to be arranged equitably.

VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasize the necessity of a Periodical Statement of Account, by which means alone **Profit, the value of Business, &c.,** can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of **confusion and loss.**

Messrs. O. & Co. are prepared to undertake these essential duties, and will make **Special Terms** for such services.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.

BUSINESSES FOR DISPOSAL.

BRISTOL CHANNEL.—Excellent opportunity to acquire good-class Dispensing Business; well situated in prosperous watering-place; showing net profit over £350; large shop, convenient house, very low rental; owner, being obliged to sell through ill-health, is prepared to offer advantageous terms to purchaser with cash. "Statim" (8/2), Office of this Paper.

FIFESHIRE, SCOTLAND.—Mostly Dispensing and Ready-money Retail; returns £800 to £900; double-fronted shop; fittings (by Grant) in first-class condition; well stocked; no immediate opposition; held on lease; rent £22; satisfactory reasons for disposal; fullest investigation invited; price £400. Apply 10/7, Office of this Paper.

MIDLANDS.—Immediate Disposal, excellent Business; main road; thickly populated neighbourhood; established 50 years; mahogany fitted; well stocked; genuine going concern; books kept; bears strictest investigation; rent £40, house, UCAL thrice pays rent; Gas Agency attached, brings £30 annum; Optical, Insurance; takings £900, increasing; could be doubled with assistance; net profit over £300; great sacrifice; strongly recommended; £450 or valuation, or seaside Business exchanged entertained. "Chemist," 7 Enderley Buildings, Bellefield Road, Birmingham.

LANCASHIRE.—Business for immediate Disposal owing to military service; shop well fitted in mahogany; would need partly restocking; valuation or reasonable offer. Apply 6/9, Office of this Paper.

FOR immediate Disposal through ill-health, an old-established Agricultural and Family Business in a good market town in Lincolnshire; new front and modern fittings; returns about £1,500, leaving excellent profit. Apply "Business," c/o Lofthouse & Saltmer, Ltd., Wholesale Druggists, Hull.

FOR SALE.—Good Manufacturing Druggist and Sundries Business; situated East End; turnover £5,000 to £6,000; Stock £1,000; 2 Motor Vans, 1 Horse Van; Goodwill, Trade-marks, etc.; what offers? Apply 278/4, Office of this Paper.

FOR SALE.—A good, old-fashioned Business, established many years; farming district, Midlands; splendidly fitted shop, large house, and garden; sacrifice on account of health; rent only £14 net; returns gradually increasing; nice healthy town; formerly done over £1,000 per annum. Apply "Urgent," c/o Mr. J. Austin, Woodbine Cottage, Houghton, near Stafford.

FOR SALE, owing to illness, an old-established Pharmacy located near King's Cross Station, N.; splendid opening for a young Chemist starting. Apply, in first instance, to W. T. P., 72 Tremadoc Road, Clapham, S.W.

PARSON C. BAKER
(Pharmaceutical Chemist),
Trade Valuer & Transfer Agent.
Recommended by The British Drug Houses, Ltd.; Messrs. Megg son & Co.; Barclay & Sons, Ltd.
Valuer to the Association of Manufacturing Chemists.
1 Mountfield Road, CHURCH END, FINCHLEY, N.
Tel. No.: Finchley 812.

BATTAM & HEYWOOD
(ESTD. 1837)
CHEMISTS' VALUERS, TRANSFER AGENTS, AND EXPERT STOCKTAKERS.
Balance Sheets Prepared. Books Audited.
3 DAVIES STREET, BERKELEY SQUARE, W.
Telephone: GERRARD 2169.

BERDOE & FISH
VALUERS & TRANSFER AGENTS,
35 Jewry Street, Fenchurch Street, City.
Telephone: 1809 CENTRAL.
NO CHARGE TO PURCHASERS.

1.—DEVON (Market Town).—Good-class Retail, Agricultural, and Photographic Business, under management and scope for increase; returns average £1,300; principal did £1,500; main road position; splendid premises; fully stocked; price simply valuation, about £900.

2.—SOUTHEND-ON-SEA.—For immediate Sale, through death; good-class Business; returns last year over £800; plenty of scope for increase; well-appointed Pharmacy, with good house attached; price £450 or valuation.

3.—SOUTH COAST.—Sound, unopposed Light Retail Business; returns under manager £600; plenty of scope for increase; rising town; low rent; modern fitted shop, fully stocked; price £375; strongly recommended.

4.—HERTS.—Good-class Light Country Retail, in best position of small market town; returns average £900; good profits; splendid house; own property; price £400 cash.

5.—BATH.—High-class Dispensing Business; owner retiring; returns £800; good profits; fine position; plenty of scope; price for quick sale £350 or first reasonable offer.

6.—LONDON, N.—Genuine Cash Retail with N.H.I.; in same hands 24 years; now retiring; returns £800; net profit over £250; large, handsome shop; prominent corner position, and in younger hands would soon do £20 weekly; price £300 or valuation; half can remain.

7.—LONDON, S.W.—Profitable Cash Suburban Retail; entirely under manager; present returns between £800 and £900; plenty of scope; rent £50, let off £26; well stocked; main-road position; price £20 and valuation, about £350; manager called up.

STOCKTAKINGS.
Appointments for stocktakings and valuations should be made early. Full particulars and terms sent on application. See page 90 of the *C. & D. Diary*, 1917.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

SALES BY PRIVATE TREATY.

FOR SALE BY PRIVATE TENDER.

THE PATENT MEDICINE BUSINESS carried on by Fox & Co. (Liverpool), Limited, proprietors of "Red Cross" Pills, Mixture, Embrocation, Lotion, etc., etc.

The Business was founded about 1874 by the late Mr. Leon B. Schover, Pharmacist, Princes Street, Hanover Square, London, and was carried on by him, trading as Fox & Co., Cambridge House, New Cross, London, for many years most successfully. It was for some time the foremost Patent Medicine Business in England and abroad.

The remedies are world-known, do not contain any famine-priced ingredients, are easily compounded, and their efficacy proved by hundreds of testimonials. The Business has suffered neglect for the past few years; with moderate capital its old prestige would soon be re-established.

The Trade Marks, Recipes, Shares in Fox & Co., Ltd., Copyrights, etc., to be sold in one lot.

Write 66/51, Office of this Paper.

FOR SALE.

OWING to death of owner, stock of Drugs in country Chemist's Practice to be Sold immediately for cash. Goods may be seen by appointment at No. 14 High Street, Llanerchymedd, Anglesey. Tenders to be sent to Mr. R. Gwyneddon Davies, Solicitor, Carnarvon.

RECEIPT-PRINTING National Cash Register for Sale; second-hand; great bargain for immediate purchaser. Write at once to F. Cook, 62b Mulkern Road, Upper Holloway, N. 19.

28 LB. Sodæ. Sulphocarb. Xtal., 28 lb. Zinci. Sulphocarb. Xtal., 1½ doz. 1*s.* 3*d.* Tokalon Creme, 3½ doz. 2*s.*, 1½ doz. 1*s.* 9*d.* Tokalon Powder. Offers for whole or part. Balkwill & Co., Chemists, Plymouth.

BUSINESSES WANTED.

A GOOD middle-class Business wanted at once in Yorkshire or near; must be well situated, with moderate rent, and doing good regular turnover; information treated as confidential. Apply "Opportunity" (8/14), Office of this Paper.

GOOD-CLASS Business wanted; net profits must reach £350 to £400 and bear strictest investigation. Send full particulars of shop and house, with last year's balance-sheet, to "Cooie" (6/27), Office of this Paper.

UNOPPOSED Business, to suit unqualified; country preferred; cash available up to £400; strictest investigation. "Confidential," 195 Pershore Road, Selly Park, Birmingham.

TO LET.

BATH.—Shop and Dwelling-house in best part of City; for many years carried on as a high-class Dispensing Chemist's; now vacant; tenant retiring; fixtures at valuation; no goodwill to pay for; suitable for lady Chemist. For rent and full particulars apply Mogers, Solicitors, Bath.

CHEMIST Shop to be Let; very old-established Business; vacant through death of aged proprietor; rent for first year £30; no premium; some fittings remaining. Apply to E. J. Barrett, 70 Southwark Bridge Road, S.E.

SHOP AND PREMISES, WEST END.—Chemists' for many years; vacant at June owing to death of proprietor; good market position; rent £130 on lease; part let off; no premium, no fixtures. Apply Elliott, Son & Boyton, 6 Vere Street, Oxford Street, W.

PARTNERSHIPS.

ADVERTISER, over military age, married, unqualified, desires Partnership in good working-class Chemist's where Dentistry could be introduced; or would like to meet qualified man, ineligible, discharged or over military age, with little capital, to purchase Business as a going concern. Apply "Dental" (6/30), Office of this Paper.

AGENCIES.

CHEMISTS anxious to meet the present great rise in working expenses should write for particulars of our novel quick-selling Line that gives the trader a fair and living profit. Kosmo Food Co., 105 George Street, Croydon.

SITUATIONS OPEN.

RETAIL.

BATH.—Reliable and experienced Assistant for first-class Business. Apply 7/25, Office of this Paper.

BIRMINGHAM.—Assistant, full or part time, unqualified, required for good-class Dispensing and Photographic Business; no Sunday duty; outdoors. Apply, stating age, experience, and salary required, Henry H. Marshall, Pharmacist, Moseley.

BIRMINGHAM (Near).—Young lady Assistant required for progressive Chemists' business; one who has had previous experience with a Chemist preferred; state salary required and when at liberty. "Staff" (7/223), Office of this Paper.

BRIGHTON.—Outdoors; competent Assistant, mainly for Dispensing; hours 9 to 7.30, Wednesday 9 to 9, Thursday 9 to 1, alternate Sundays duty 9 to 2 and from 6 to 8. Apply, with full particulars, stating age, height, salary required, and enclose photo if possible, J. Colby & Co., 101 Western Road, Brighton.

BRISTOL.—Manager; qualified; exempt if of military age; Light Cash Retail in main thoroughfare; easily worked; short hours; no Sunday duty; living accommodation if necessary; most comfortable berth; every consideration given to the right man. Apply, stating salary required, age, references, enclose photo if possible, 8/23, Office of this Paper.

BROADSTAIRS.—A competent Assistant required; ineligible for military service; must be a reliable Dispenser; state age, height, salary, and full particulars. Julian Horrell, Chemist, Broadstairs.

BURNLEY, LANCS.—Qualified Chemist, lady or gentleman, for N.H.I. and Retail Counter; mixed business; reliable. State experience and salary to Lancashire Drug Co., Ltd., Accrington Road, Burnley.

CANTERBURY.—Temporary Assistant; unqualified; ineligible; accustomed to good-class Business. Full particulars, with photo, to E. Bing & Son, Pharmaceutical Chemists, Canterbury.

CASTLEFORD.—Wanted, reliable Assistant; outdoors; ineligible or over military age. State age, experience, salary required, and when disengaged to T. C. Binks, Chemist, Castleford.

CHESHIRE.—Junior Assistant wanted at once, lady or gentleman, for Dispensing and Counter; an exceptional opportunity for lady with slight experience to further same. 9/36, Office of this Paper.

CROYDON.—Assistant wanted for General Retail and Dispensing; capable and reliable. Apply, stating experience, references, salary, etc., Barron, Chemist, 77 High Street, Croydon.

EALING.—Required at once, an Assistant, lady or gentleman, temporary or permanent. Please send full particulars experience, salary required, to W. A. Weston, 8 Sandringham Parade, Ealing.

EASTBOURNE.—Part-time Assistant (5 to 7 hours daily), lady or gentleman, for Dispensing, required as soon as possible; permanent or end of September. Particulars and references to J. F. Andrews & Co., Chemists, Carlisle Road, Eastbourne.

EASTBOURNE.—Assistant wanted at once; permanent or till middle or end of October; must be capable Dispenser; easy hours; no N.H.I. Full particulars, with references, etc., to Moss, Chemist, Grand Hotel Buildings, Eastbourne.

GUILDFORD.—Assistant wanted for about two months; duties chiefly Dispensing; outdoors; very easy work and hours; lady or gentleman. Jeffries, Chemist, Guildford.

HAMPSTEAD HEATH.—Junior wanted for Dispensing business; lady or gentleman. Kindly give full details of experience, age, salary, etc., to Herbert Williams, 31 Heath Street, Hampstead, N.W. 3.

LANCASHIRE.—A vacancy occurs at a well-known Pharmacy for smart young lady who has had good experience with a Chemist and is an efficient Dispenser; permanency; state salary required and when at liberty. "Lancs" (7/220), Office of this Paper.

LIVERPOOL, Suburb.—Assistant; outdoors; good-class Dispensing business; must be experienced; alternate Sunday duty; half-day weekly. Usual particulars (with photo if possible) to M. & R., 127a St. John's Road, Waterloo, Liverpool.

LIVERPOOL.—Elderly or middle-aged qualified Assistant; comfortable post; Extractor preferred but not essential. Apply 8/27, Office of this Paper.

LONDON (POPLAR DISTRICT).—Young lady Assistant required for progressive Chemist's establishment; permanency; must have had some Counter and Dispensing experience. "Poplar" (7/221), Office of this Paper.

LONDON, S.W.—Required at once, a capable Assistant (outdoors) for N.H.I., Counter, and Photographic trade. References, etc., to A. Owen, 260 Upper Tooting Road, S.W. 17.

LONDON (Suburb).—Assistant, ineligible, whole or part time, also Locum, required for 8 weeks; outdoors; good-class Retail, Dispensing, and Photographic; state usual particulars, salary expected, and when disengaged. Apply J. P. Kendall, 20 Park Parade, Palmers Green, N. 14.

LONDON, N.—Managing Assistant (ineligible for the Army), married, and to live over business; an experienced and capable man required. Please state full particulars, including salary (house provided), to C. N. Coles, Pharmacist and Qualified Optician, 804 High Road, Tottenham.

LONDON, W.—Outdoor Assistant wanted at the Dispensing Counter of a high-class Business; no N.H.I.; must have served a regular apprenticeship and be well recommended; hours 8.30 to 7, Wednesdays 8.30 to 1; duty every third night and every third Sunday. Apply, giving full particulars, to Mr. Lewis, Chemist, Ealing, W. 5.

LONDON, W.—Manager, qualified, experienced man, about 45, for good middle-class Business in West End; must be reliable, a good Salesman, and have satisfactory references; permanency and good prospects to the right man. Apply, giving full particulars of experience and salary required, 9/1, Office of this Paper.

LONDON, W.—At an early date, lady Assistant, with good Dispensing experience; neat and tidy, and suitable for a high-class Pharmacy; £2 7s. 6d. per week; outdoors. State particulars and send two recent references to "Brightside" (73/28), Office of this Paper.

LONDON, W.—Wholesale and Retail; wanted, immediately, lady Assistant for putting up varied Drug Orders; must have good Pharmaceutical experience; hours of business, 9 a.m. to 6 p.m. Apply, by letter, giving particulars of experience and salary required, to Hospitals and General Contract Co., Ltd., 19/35 Mortimer Street, W.

MANCHESTER.—Wanted, unqualified Assistant, either sex, to take second position Counter and Dispensing. Bates, Brooks's Bar.

NOTTINGHAM.—Young lady Assistant required shortly for Counter and Dispensing; some previous experience necessary; no Sunday duty; half-holiday weekly. State age, salary required, and give full particulars in first letter to A. Middleton & Son, Pharmacists, Nottingham.

RYDE.—Wanted, young lady Dispenser, qualified preferred, for 6 or 7 weeks; one hour free every morning; alternate duty; indoors.—Tenison Smith, Ryde, I. of W.

S.W.—Outdoor Junior or part-time Assistant wanted at once for good-class Retail and Dispensing business; not much Insurance work; near several schools. Apply, with usual particulars, enclosing photo, R. Banbury, 186 Lavender Hill, S.W. 11.

SANDWICH.—Unqualified, ineligible, required early in August; no Sunday duty. Apply Fred J. Dyer, New Street, Sandwich.

SOUTH OF ENGLAND.—Assistant required (male or female); free removal; permanency with good salary. Timothy White Co., Ltd., Chemists, Portsmouth.

SOUTHAMPTON.—Wanted, qualified, experienced Manager with good Dental and Optical experience, to live over premises; salary and commission; state experience and salary required. Dodridge, 107 Portsmouth Road, Woolston, Hants.

WEST BROMWICH.—Temporary lady Assistant required for about 3 months in Light Retail and Dispensing business; must have had good Counter experience; reasonable hours and good salary. Rex Allen, Chemist, West Bromwich.

YORKSHIRE (West Riding).—Manager (qualified) required for progressive Cash business; must be a rejected man or above military age; liberal interest in the profits offered to a really capable man. "Urban" (7/222), Office of this Paper.

10 CHESTER PLACE, Hyde Park Square, London, W. 2.—Maitland, Son & Lindley have a vacancy to be filled at once; high-class Counter work and Dispensing; hours 9 a.m. to 6.30 p.m.; weekly half-holiday; no Sunday duty; ladies with experience please apply.

ARTHUR C. PARKINSON, of the firm of Parkinson & Son, having been called up, is desirous of engaging a capable Assistant to help his father in the management of the business during his absence. Please apply, with usual particulars and salary required, to F. W. Parkinson & Son, Chemists, Atherstone, Warwickshire.

ASSISTANT, lady, wanted at once for Dispensing and Light Retail; must be a capable Dispenser; outdoors; easy hours. Full particulars as to salary required, etc., to Hampton, 86 Northgate Street, Gloucester.

ASSISTANT, lady or ineligible, principally for Dispensing; outdoors. Full particulars to Dolman, Bath Road, Cheltenham.

BRANCH Manager wanted at once; must be over military age or ineligible. Apply, personally or by letter, stating salary required, when disengaged, and enclosing recent photograph, to Parke's Drug Stores, 65 Harmood Street, N.W.

DISPENSER (Assistant) wanted for East Dulwich Dispensary; four hours daily; no Sunday work; £52 per annum. Apply Hon. Secretary, 193 Landells Road, S.E. 22.

DISPENSER wanted (lady) by Medical man near Manchester. Apply, by letter, giving full particulars, to "Doctor," c/o Messrs. J. C. Arnfield & Sons, Ltd., Prince's Street, Stockport.

DISPENSER, outdoors, required. Apply, stating age, salary required, and references, to Dr. Phillips, Hednesford, Staffs.

HOSPITAL FOR CONSUMPTION, BROMPTON, S.W.—Wanted at once, Dispenser (male) for temporary duty, July 9 to August 25; Minor qualification essential; salary offered £3 3s. weekly, with lunch provided. Applications, stating age, experience (Hospital or otherwise), accompanied by two recent testimonials, to be addressed to the Secretary.

LADY Dispenser, outdoors, required by July 30th. Apply, with full particulars, to Dr. Burnett, Leek, Staffs.

LADY Dispenser (Hall) wanted for a high-class Pharmacy in pleasant residential town, West of England; the vacancy is in the Dispensing Department (no Counter work), and the applicant must be accustomed to good-class Dispensing, including Pill-making. Kindly give experience, stating when disengaged and salary required, to 8/19, Office of this Paper.

LADY Dispenser required for holiday work from July 26th for 3 weeks, mornings and evenings only; no Sunday duty; Apothecaries' certificate and some experience necessary. Apply, first by letter, with full particulars, to Miss Thomas, 42 Manor Street, Clapham, S.W.

LADY Dispenser, Minor or Hall qualification, required for good-class Business. Also a lady Dispenser for part time; no N.H.I. work. Apply, in first instance, to "X.H.A.G.," c/o S. Maw, Son & Sons, Ltd., 7-12 Aldersgate Street, E.C.1.

LOCUM wanted in a few weeks' time for Public Institution in North London for three weeks; Pharmacist or Apothecaries' Hall certificate; hours 9 a.m. to 6 p.m.; no Sunday duty; salary £3 weekly and dinner daily. Apply 6/18, Office of this Paper.

LOCUM, outdoors, required for brisk Light Retail and Dispensing; whole or part of 9 weeks commencing about July 2; close three nights at 7.30, Thursdays at 1; no Sunday or night duty; good salary offered to capable man; in reply, please state full particulars, enclosing photo if possible (to be returned). Walter Reeson, 80 High Street, Erith, Kent.

MANAGER or qualified lady Dispenser wanted for Suburban Chemists (Lee Green, S.E.); qualified; must be ineligible for military service. Write, stating age, experience, and salary required, to Frost & Harrison, 3 Eltham Road, Lee Green, S.E.

MANAGER, ineligible, for small Proprietary and Speciality business. Apply, stating age, experience, and salary required, to "Aspirin," 58 York Road, Waterloo, London, S.E.

MANAGER, qualified, required at once; outdoors; owner on active service. Apply, with full particulars, references, salary required, to Rowcroft & Co., 66 Week Street, Maidstone.

MESSRS. TIMOTHY WHITE CO., LTD., Chemists, Portsmouth, require a capable Pharmacist (male or female); easy hours; good and progressive salary, with excellent prospects; free removal.

PRICING CHEMISTS' STOCK BOOKS.—Wanted, man or woman to price Stock Books in spare time at home; suit Pricing Clerk or anyone conversant with costs who has spare time. Apply, giving full particulars, to Simpson, 135 Queen's Road, Brighton. All applications treated in confidence.

QUALIFIED Manager wanted at once for nice-class Business in Cheshire; easy hours; strongly recommended by Traveller; suit elderly Pharmacist or young Pharmacist just qualified; male or female. Write Keyser, 26 Derby Grove, Lenton Sands, Nottingham.

QUALIFIED Manager for duration of war; Manchester district; must be over military age; salary £3 3s. weekly. Apply 6/90, Office of this Paper.

QUALIFIED Manager wanted with a view to purchase the Business of the late Mr. William Dodge, 142 Love Lane, Heaton Norris, Stockport. Apply to Executor, Mr. W. E. Sugden, 19 Dickinson Street, Manchester, or Messrs. James Woolley, Sons & Co., Ltd., Victoria Bridge, Manchester.

QUALIFIED Assistant wanted; ourdoors; exempt from military service; duty shared by 3. State all particulars of age, height, experience, salary required, or call, Hooper, Struve & Co., Ltd., 26 Davies Street, London, W.1.

QUALIFIED Assistant; capable of taking charge; good house over available if desired; permanency. Apply, with full particulars, Frost, Chemist, Portswood, Southampton.

QUALIFIED Manager, age about 46, required immediately for Relief work; Yorkshire and Lancashire; permanency afterwards if satisfactory. "Relief" (7/22), Office of this Paper.

REQUIRED immediately, temporary Assistant, capable of being left in charge; lady fairly well up in Counter work not objected to. Apply to F. Martin, 72 Wells Road, Sydenham, S.E. 26.

REQUIRED, lady Counter Assistant, with experience in the selling of Perfumery and Druggists' Sundries in ordinary demand. Hours of work, 8.45 to 6 o'clock and 1 o'clock Saturdays; no Sunday duty. Apply, stating full particulars of past experience and salary required, to L. J., Army and Navy Stores, Ltd., 105 Victoria Street, S.W.1.

REQUIRED, Dispenser; Minor qualifications; hours of work, 8.45 to 6 o'clock, 1 o'clock Saturdays; no Sunday duty. Apply, stating full particulars of past experience and salary required, to L. J., Army and Navy Stores, 105 Victoria Street, S.W.1.

SALESMAN and Dispenser wanted; unqualified; must be ineligible or over military age. Apply, personally or by letter, stating salary required and when disengaged, and enclosing, if possible, recent photograph, to Parke's Drug Stores, 65 Harmood Street, N.W.

TEMPORARY Assistant (outdoors) wanted from July 9th for 4 weeks (either sex). Apply, personally if possible, or by letter, stating full particulars, Hamblen, Chemist, 57 Brixton Road, S.W.9. 'Phone: Brixton 653.

UNQUALIFIED Manager for Branch near Oxford Street; knowledge of French preferred; good references required; ineligible. Also qualified Locum last week July. Apply, stating salary required, to 9/37, Office of this Paper.

WALTER E. PLANT, Pharmaceutical Chemist, Doncaster, has a vacancy for a lady Assistant with knowledge of Book-keeping and Typewriting; moderate hours; outdoors.

WANTED, elderly or retired Pharmacist, or lady with some experience of Chemist's business, for whole- or part-time engagement for three months, or longer if mutually suitable; good-class Country business; South Coast; a very light and easy berth in return for small salary. Apply, with usual particulars, to Gare, Pharmaceutical Chemist, Lymington, Hants.

WANTED, unqualified Locum, lady or gentleman, last fortnight in August. Full particulars and salary (outdoors), to S. S., 436 High Road, Streatham, S.W. 16.

WANTED, for Business in Lincolnshire inland town, Senior Assistant (outdoors); must be ineligible and have knowledge of Photography; Optical knowledge desirable; easy hours and no Sunday duty. Send full particulars, stating salary, references, etc., to 8/16, Office of this Paper.

WOMAN, qualified Minor, wanted, about 30, well trained, for a good working-clas Business; N.H.I. and General Counter; comfortable berth; give fullest particulars, salary required, etc.; replies treated in confidence. "North Staffordshire" (279/18), Office of this Paper.

YOUNG lady Assistant wanted, with or without experience; half-day and early evening; quick Counter trade; no Insurance Dispensing. Apply, stating age and terms, with photo (to be returned), Reynolds's Central Pharmacy, 6 Nilo Street, Woolwich, S.E.

WHOLESALE.

LIVERPOOL.—Vacancy for capable man with thorough knowledge of the Drug trade. Ayrton, Saunders & Co., Ltd., 34 Hanover Street, Liverpool.

ASSISTANT in Surgical Instrument business in provinces. Address, stating age, duties accustomed to, and wages expected, 61/59, Office of this Paper.

ASSISTANT wanted in small Proprietary Warehouse; capable of taking entire charge when required; previous experience not essential. Apply 10/5, Office of this Paper.

CLERK, male (ineligible) or female, required in Export Druggists'; one with experience of Spirit Drawback preferred; commencing salary £50 per annum. Full particulars to D. D. Dakin Bros., Ltd., 82 Middlesex Street, E. 1.

COMPANY Chemists require men (ineligible for the Army) to prepare B.P. Preparations and Proprietaries in Works; Manufacturing experience desirable but not essential; applications invited from Assistants who prefer manipulative Pharmacy to Counter work; easy hours; Saturday half-holiday; state experience and salary desired. Martyn's Stores, Ltd., 26 Queen Street, Wolverhampton.

GIRL wanted; used to Treadle Printing Machine; salary about 18s. Apply 71/52, Office of this Paper.

LABORATORY Assistant required in London Factory for Perfumery and Toilet Products; progressive salary and permanency to accurate and responsible worker. Apply, by letter, to "Export" (276/20), Office of this Paper.

MANAGER, qualified preferred, for Wholesale business in the Midlands; comfortable berth; good salary and share of profits; excellent prospects for energetic and conscientious man. State salary required, when disengaged, and what experience in Wholesale, first letter, to 8/39, Office of this Paper.

QUALIFIED lady Assistant required for light and instructive employment by a leading firm of Manufacturing Chemists; preference given to one who has had Retail experience; hours, 9 a.m. to 6 p.m., and 9 a.m. to 1 p.m. on Saturdays. Apply, enclosing photograph (to be returned), stating age, experience, and salary required, to 73/35, Office of this Paper.

REQUIRED, for City Wholesale Druggists, young lady for Wet-floor Poison Room; Hall qualification; hours 9 a.m. to 5.30 p.m., Saturdays 1 o'clock. Apply, by letter, giving full particulars and salary required, to 72/29, Office of this Paper.

REQUIRED, for Manufacturing Druggist and Sundries business, Working Manager; well up in manufacture of small Sundries; output about 200 gross per week; must be able to take complete control. Apply 278/400, Office of this Paper.

SURGICAL INSTRUMENTS.—Good opening for a Junior Salesman. Apply, by letter, stating experience and salary, B., 38 Oxford Street, W. 1.

TYPIST, Junior, required for Order Department of City Wholesale Druggists'. Apply, by letter, giving full particulars and salary required, to 73/34, Office of this Paper.

UNDER-FOREWOMAN wanted for Girls' Packing Department of Manufacturing Chemists; state age, experience, and salary required. Apply 73/30, Office of this Paper.

WANTED, strong youth as Dry-room Porter. Apply, stating age, wages, and experience, to Gale & Co., Ltd., 15 Bouverie Street, E.C. 4.

WAREHOUSEMAN and Shipping Clerk required (not eligible for military service); one with knowledge of Packing and Shipping Patent Medicines or Drugs preferred. Write, giving full particulars experience and salary required, to Proprietary Agencies, Ltd., 179 Acton Vale, Acton, W. 3.

WET-COUNTER Assistants; male or female. Apply to Dakin Bros., Ltd., Wholesale Druggists, 82 Middlesex Street, E. 1.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

CHINA.—Wanted, thoroughly competent Assistant; ineligible for military service; must have had good experience in high-class Retail business; liberal terms; three years' agreement; passage paid out and home; preference given to man who speaks one or two languages. Reply to Durant, Radford & Co., Ltd., Billiter Buildings, E.C.

PARIS.—Wanted, immediately, competent Assistant; ineligible for military service; accustomed to good-class Dispensing and Retail. Apply to Mr. Brooks, 6 Northumberland Avenue, London.

SITUATIONS WANTED.

[HOME.]

RETAIL.

AS Locum, Manager, or Assistant; 35 years' experience; disengaged; smart, etc. "Drugs," 28 School Terrace, Barnoldswick via Colne, Yorks.

ASSISTANT; C 3; first-class Dispensing experience; evenings only; East London preferred; Doctor or Chemist. J., 55 Hilda Road, Canning Town, E. 6.

ASSISTANT; unqualified; outdoors; age 55; smart, active, gentlemanly; abstainer; Dispenser, Counterman, Photographer; disengaged. P., Park House Cottage, Burgoyne Road, South Norwood.

ASSISTANT, Manager, Locum; unregistered; ineligible; single; good address; 20 years' London and Provincial experience; state salary. "Lenoil" (8/40), Office of this Paper.

ASSISTANT or Manager; unqualified; ineligible; smart Salesman, Window-dresser; N.H.I. Dispensing; disengaged; married. Address "Salesman," 1 Lowwood Grove, Borough Road, Birkenhead, Cheshire.

DISENGAGED; open; Locum or permanency. "Desmond," 37 Upper Kennington Lane, S.E.

DISPENSER (unqualified), 36, married, competent, trustworthy, tactful, experienced visiting patients, discharged from Army, requires position under Doctor. K., 63a Marlboro Road, Colliers' Wood, Merton, London, S.W. 19.

DISPENSER, lady, requires post with Doctor or Chemist; good experience; thoroughly reliable. Apply 6/29, Office of this Paper.

DISPENSER, woman (not girl), wants work evenings from 6; would give services in exchange for 3-4 rooms over Surgery; 12 years' experience. "Medica," 41 Great Ormond Street, W.C. 1.

DISPENSER, lady, experienced Chemist's and Dispensary, now engaged, seeks change; hours 10-5; 50s. "Dispenser," 29 Compton Terrace, Highbury, N. 1.

DISPENSER, Bookkeeper, and Surgery Assistant, over military age, with long experience and very highest references, desires re-engagement. Address "Dispenser," 59 Newington Butts, S.E.

EVENING WORK.—Counter or Dispensing; West-End experience; over military age; disengaged after 6.30 p.m.; West or South-West district preferred. Apply "Cicfa" (7/2), Office of this Paper.

HOSPITAL Locum; 20 years' best Hospital experience; Hall qualification; abstainer; educated gentleman; 42; one or two weeks July or August. Apply 9/34, Office of this Paper.

LADY, good Store experience, requires post; London preferred. L. S., 109 Abbeville Road, Clapham Park, London, S.W. 4.

LADY Dispenser, qualified, desires part-time post in Dispensing or Bookkeeping with Doctor or Chemist in Brixton, Clapham, or Stockwell; 3 years' experience; good references. Address K. L., 24 St. Michael's Road, Stockwell, S.W. 9.

LADY Dispenser (Hall) seeks post; Doctor, Institution, or part-time Chemist; one year's experience; Bookkeeping; First-aid and Nursing certificates; perfect French; country within 20 miles London preferred. E. Bailey, 53 Leinster Square, W. 2.

LADY Dispenser; 20; Doctor or Institution; excellent references; end of July. B. Edwards, Post Office, Llanelidan, near Ruthin.

LADY Dispenser, Hall certificate, experienced, is disengaged for two weeks in August. Address 7/38, Office of this Paper.

LOCUM; 53; 20 years experience; reliable, active; abstainer; disengaged; terms moderate. "Notts" (7/29), Office of this Paper.

LOCUM; London only; July 23rd to August 4th inclusive only vacant date. "Chiretta" (73/2), Office of this Paper.

LONDON or near; unqualified seeking Dispensing post; C 3; experienced. Apply 8/21, Office of this Paper.

M.P.S.; ELDERLY; active; part time; Counter, Dispensing; healthy town; medium class. Particulars, 7/33, Office of this Paper.

MANAGER; qualified; 50; for duration of war or permanency; abstainer; used to N.H.I. work; West Riding town or village preferred; please state wages, hours, and usual particulars. Apply 6/35, Office of this Paper.

MANAGER or Locum; qualified; Major; age 46; all-round experience; N.H.I., Photography; 11 years own business. Walton Porter, 198 Finchley Road, Hampstead, N.W. 3.

MANCHESTER DISTRICT.—Experienced man offers evening services to Chemist; at liberty 5.30. "N.H.I.," 407 City Road, Cornbrook.

PART TIME; a few hours daily or occasionally (not evenings), during July; qualified; 53. Apply 10/8, Office of this Paper.

PHARMACIST, 47, with exceptional experience, having disposed of his Business, wishes for Managerial position or position of trust in good-class Pharmacy; would be willing to do Locum work for short periods. Apply 7/24, Office of this Paper.

QUALIFIED; disengaged shortly; aged 43; total abstainer; Hospital or Counter; splendid references. Gillham, "Brentwood," 106 St. Andrew's Road, Portsmouth.

QUALIFIED; C 3; aged 30; good all-round man; North Midlands preferred; Salesman, Window-dresser, Photography. Offers to "Permanency" (8/3), Office of this Paper.

QUALIFIED, 30, desires berth as Manager; B 3; conditional exemption; good all-round experience; Birmingham district preferred. Apply 277/29, Office of this Paper.

QUALIFIED has two or three days weekly disengaged. Apply 9/31, Office of this Paper.

QUALIFIED Dispenser (Hall) disengaged July 21st for two weeks; country preferred. Miss Carter, 340 Brixton Road, S.W. 9.

SOUTHSEA.—Lady Assistant; Hall qualification; outdoors; good salary. Apply Arnold & Sons, Chemists, Southsea Pharmacy.

UNQUALIFIED Assistant; capable of management; all-round experience; country preferred; age 45. Apply 7/1, Office of this Paper.

UNQUALIFIED Locum or permanent; age 43; married; Manager or Assistant; experienced; at liberty. Alsop, 23 Tavistock Avenue, Walthamstow, N.E.

ADVERTISER, qualified, now in Government Office, requires Bedroom convenient for City; could doubtless help in off-time; not young. "Scot" (9/40), Office of this Paper.

WHOLESALE.

? DO you want Representative Notts, Derby, qualified, ineligible, with connection? Write 6/36, Office of this Paper.

BRITAIN OR ABROAD.—20 years Felton, Grimwade & Co., Australia, Laboratory, Salesman, Traveller; 15 years' London Market experience; past seven years and at present with Export Druggists London; record clean. Credentials: Felton, Grimwade & Co., Rocke, Tompsitt & Co. (Mr. Tompsitt). References: London merchants, buyers, and banks. Reply to E. S. Gatenby, 35 Artesian Road, Bayswater, W. 2.

CHEMIST, over military age, desires position as Representative to Drug or Allied trades; energetic; good address; gentlemanly appearance. Apply 8/28, Office of this Paper.

MANUFACTURING Chemist, well up all branches, seeks re-engagement London firm; best references; military exempted. Apply 10/13, Office of this Paper.

PHARMACEUTICAL Chemist, B.Sc. (Lond.), long experience in Wholesale Manufacturing, Analysis, Warehouse management, and Travelling, desires change; London or South preferred; age 46. Apply 7/40, Office of this Paper.

REPRESENTATIVE (lady) desires to take up the sale of another Chemist's Line on commission in Great London; good connection among Wholesale and Retail. "Energetic" (2/20), Office of this Paper.

SMART man wants to represent first-class House Counties of Durham, Cumberland, Northumberland, and Westmorland, for duration of war; good opportunity for firm whose traveller has been called up. Apply 9/39, Office of this Paper.

"DAISY" TABLETS

REDUCTION IN PRICE.

Revised price as follows:

One dozen tins **12/9** per dozen net.
Three „ „ **12/6** „ „ „

Carriage paid to destination.

The new prices affect only buyers of one dozen tins. The rate for quantities of less than one dozen remains the same, viz., **13/-** per dozen net.

Customers who have already bought quantities of one dozen tins will receive a credit note in due course for each such order.

FOR SPECIAL BONUS OFFER SEE OPPOSITE PAGE.

DAISY LTD. Mammoth Works, **LEEDS.**

ESTABLISHED 1893. *TELEGRAMS: "DAISY LEEDS."*

"DAISY" TABLETS FREE

Generous Offer to Buyers of 1 Dozen Tins.

In addition to the reduction in price of "Daisy" Tablets outlined on the opposite page, we are giving (for two weeks only) a special bonus of ¼-dozen tins free to all buyers of one dozen.

Since their introduction in December last, "Daisy" Tablets have been strongly advertised with big spaces in all the leading newspapers and journals and there is in consequence already a heavy demand

An even larger and more extensive advertising campaign to start immediately is being prepared which will greatly increase this demand, and we are desirous that every chemist should be in a position to supply them. With this end in view we have decided to make this special offer to Chemists for a trial order.

¼-dozen Tins Free with each One Dozen Order.

It must be clearly understood that this offer cannot be repeated, and that it holds good for a period of two weeks only from the date of issue of this paper. The only condition we impose is that the Chemist exhibits two of our showcards—one in his window, the other in a prominent position in his shop for a period of not less than 14 days. Avail yourselves of this generous offer to-day. Do it now—this offer holds good for two weeks only.

DAISY LTD. Mammoth Works, LEEDS.

ESTABLISHED 1893. *TELEGRAMS: "DAISY LEEDS."*

TRAVELLER wants berth; first-class House; elderly, energetic; good Salesman; gentlemanly; salary, commission, expenses. E., c/o Hawker Bros., Lozenge Manufacturers, Denman Street, London Bridge, London.

WHOLESALE.—Traveller, with sound connection amongst Chemists and Stores, London and Suburbs, wants established Firms; Drugs or Tablets and Lozenges; sound Chemical knowledge. 9/29, Office of this Paper.

MISCELLANEOUS.

CHEMIST'S high-class Second-hand Fittings: 10 ft. handsome mahogany Plate-glass Piano Wall Case; 14 ft. Drug Fitting, labelled drawers and cupboards; 6 ft. Dispensing Screen; 10 ft. Plate-glass-fronted Counter; 5 ft. Bent Plate-glass Counter Case; Silent Salesman; Perfumery Case and Desk, Label Drawers; the lot £110; absolute bargain; cheapest house for Window Enclosures, Glass Shelves, modern Shop Fronts, improvements, etc.; plans prepared: estimates submitted. Hill's Shopfront, Shopfitting Glass Facia Works, 163 & 5 Old Street, E.C. 'Phone: L.W. 550.

WE have to offer 10 gross of Formamint Bottles. Apply 63/28, Office of this Paper.

SECOND-HAND Chemists' Fittings.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262 Old Street, London, E.C.

SHOWCASES.—Large quantity of All-Glass Counters (second-hand), Silent Salesman, and upright Cases with glass shelves; most useful and paying adjuncts to any Pharmacy; make splendid show; moderate prices; all other Pharmacy Fittings ready for immediate use. PHILIP JOSEPHS & SONS, LTD., 93 Old Street, London, E.C. 1.

HIGH PRICES FOR CAMERAS

Original Cost Price for Vest Pocket Kodaks, R.R. Lens, and Watch Pocket Carbines. Try us for Single Models, Dealers' Stocks, Ensignettes, &c. We reply promptly and courteously, and goods are returned at once, CARRIAGE PAID, if no business is done.

WATSONS, 84 High St., Sheffield.

TO WHOLESALE CHEMISTS, SHIPPERS, etc.

We compress tablets from your own ingredients or otherwise, plain or coated. Large quantities dealt with quickly. Superior Machinery and Scientific Control.

Lowest quotations for Cascara tablets in bulk.

R. GIBBINS & CO., 1 Birkbeck Road, Kingsland, LONDON, N.E.

8/6 3 Years 4 Columns — **Jay Mack's Ledger** — **10/6** 4 Years 5 Columns

gives Yearly Sales, Purchases, Exes., with only 10 mins. work weekly; Easy Stocktaking explained; Form Pages show Balance Sheets and Income Tax Deductions; no previous Book-keeping experience needed.

On appro. on receipt of cheque. 6d. Booking Fee if returned.

Mack-Ivor, Hightown P.O., Crewe. | Ayrtons, Evans, Bleasdale, Ucal Raimes (Edinb.) | Australia: Elliotts, C.D.A. | S. Africa: Border Drug, Gardners.

Developing. Printing. Enlarging

Developing Spools, 6 Ex., 6d.; 12 Ex., 1/-; V.P.K., 6d.
Prints up to and including ¼-plate . . 1d. each.
ENLARGEMENTS. LIST FREE.
Prompt dispatch. Trade discount, 25 per cent. Postage extra.

MARTIN, Chemist, SOUTHAMPTON.

DEVELOPING and PRINTING.

BEST Results. *QUICK Returns.*
6 Exposures, any size, 4d. net. | 12 Exposures, any size, 8d. net.
Price List on application to:
ESSEX DEVELOPING AND PRINTING CO.
4 Norlington Road, Leytonstone, E. 11.
YOUR CUSTOMERS WILL BE PLEASED WITH RESULTS IF THE ORDERS ARE GIVEN TO US.

WAR WANTS EXCHANGE.

For the terms upon which announcements are inserted herein see Supplement for June 30, p. xxxvi.

WANTED.

Adalin tablets (7/17)	Iodol (73/11)
Cotoin (73/11)	Mesotan (73/11)
Eunatrol (73/11)	Phosphotal (73/11)
Exalgine (73/11)	Salophen (73/11)
Guaiacol cinnamate (73/11)	Soda cinnamate (73/11)
Guaiacol phosphate (73/11)	Thymol carbonate (73/11)

EXCHANGE COLUMN

One halfpenny per word with name and address. One penny per word if we register the address and attach a number. No advertisement inserted for less than 6*d*.

FOR DISPOSAL.

DENTAL.

FOR Sale, 12 Dental Show-pieces. R. Lamb, 123 West End Lane, London.

DRUGS AND CHEMICALS.

FOR Sale, Phenacetin Tablets, 500 × 5 gr., in bulk, 35*s*., prepaid. Apply 7/16, Office of this Paper.

OFFERS.—Winchester's Ess. Morchi, Ess. Vanilla, Tinct. Scillæ, Tinct. Chlorof. Co. Callam, East Dulwich.

5 LB. Winchester Ess. Vanilla Opt., 3*s*. 6*d*. per lb., carriage paid; sample free. W. Huntrods, Holbeck Moor, Leeds.

SHELLAC, fair T.N. 7 lb. at 2*s*., 14 lb. at 1*s*. 10½*d*., 28 lb. at 1*s*. 10*s*.; carriage paid; cash with order. Lee, Chemist, Middlesbrough.

WANTED.

TABLET Machine for power; give full particulars. Walton, Batley Carr.

AYRTON'S Lemonade Tablets; state price. Powell & Co., 53 Ferry Road, Leith.

WANTED, *Chemist and Druggist*, August 29th, 1914. "S. B." (15/15), Office of this Paper.

EUREKA Tablet Machine; state price and particulars. Apply 71/10, Office of this Paper.

PYOKTANIN, Yellow. Wanted, a small quantity. Address "A.B.," Office of this Paper.

WANTED for cash, Photographic Plates, Cameras, Mounts, sundries. Wilsons, Chemists, Wigan.

B.P. 1914; Thiocol Tablets; Cooper's Dip. Pharmaceutical Formulas. McMullan, Chemist, Larne.

TINCTURE Press (old outside "Screw" frame part only); condition immaterial. Allen, Urmston.

SALICINE; large or small quantities; spot cash; state price and quantity. Russell, 27 Store Street, W.C. 1.

WILL exchange *Chemist and Druggist* for *Pharmaceutical Journal*. Kendall, Chemist, Allerton, Bradford.

ANY quantity Saccharine, 330 ½ gr. in 1 gr.; sample with price. Norman, Stores, 104 Heyworth Street, Liverpool.

WANTED, 6-oz. long-necked round Bottles; also green flats, 2 oz. panelled preferred (job). 11 Crescent, Cambridge.

YARDLEY'S Sixpenny Perfumes; state odour, quantity, and price; Ayrton's Lemonade Tablets. Meyler, Milford Haven.

WANTED at once, high-class entire Fittings, Shop Rounds (recess preferred), etc., etc.; full particulars. Apply 8/26, Office of this Paper.

MILL (Edge Runner) or combined Grinder and Mixer; capacity 1-3 cwt. for power. Phone: Museum 160. Manager, 2 Eden Street, N.W. 1.

ROTARY Pill Machine, 3-grain, hand or power, wanted; state width of rolls and price; must be 3-grain. Apply 2/10, Office of this Paper.

VANISHING-CREAM Mixing Machine required; capacity about 30 galls., with H.W. jacket; power driven. Particulars, Edwards' Harlene, Ltd., 20-26 Lamb's Conduit Street, W.C.

COMPLETE Fittings for small Pharmacy; also Dispensing Scales; 5-grain Pill Machine; 24 15-grain Suppository Mould; 12 and 6 × 3 Shop Jars; 4-pint Oil Rounds and Window Fittings. Apply 278/37, Office of this Paper.

OPTICAL books, Minor, Major, Chemists' books; send prepaid for valuation; cash offers per return. Gower, Bookseller, 41 Voltaire Road, Clapham, S.W.

FORMULA for good Garden Pest Destroyer, wireworm, greenfly, ants, etc.; state whether poisonous, harmful to plants, approximate making cost. Russell, 27 Store Street, London, W.C. 1.

PAPER

White Demy, Yellow Wove (Blue), Brown Tissue, White and Coloured Do., Small Hands (Whitey-Brown) Sulphites, Kraffs, and English Browns. Twine in 6 oz. balls @ 10/6 per doz. Parcel String in 1 lb. balls @ 15/- per doz. Samples sent on receipt of card stating size and weight of paper required. Cash with order.

D. W. BULL,
4 Churchill Road, Homerton, E 9.

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